## **Ottawa Light Rail Commission**

Riccardo Cosentino on Friday, May 13, 2022



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6	OTTAWA LIGHT RAIL COMMISSION
7	RIDEAU TRANSIT GROUP - RICCARDO COSENTINO
8	MAY 13, 2022
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14	Held via Zoom Videoconferencing, with all
15	participants attending remotely, on the 13th day
16	of May, 2022, 9:00 a.m. to 12:04 p.m.
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1	COMMISSION COUNSEL:
2	Kate McGrann, Commission Co-counsel
3	Emily Young, Litigation Counsel Member
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5	PARTICIPANTS:
6	Riccardo Cosentino: STV
7	Jesse Wright: Paliare Roland
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10	ALSO PRESENT:
11	Helen Martineau, Stenographer/Transcriptionist,
12	Chandani Joshi, Virtual Technician
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	1	Upon commencing at 9:00 a.m.
	2	RICCARDO COSENTINO: AFFIRMED.
03:56:39	3	KATE McGRANN: The good morning,
	4	Mr. Cosentino, I'm Kate McGrann, and one of the
	5	colead counsel for the Ottawa Light Rail Transit
	6	Public Inquiry, joined this morning by my
	7	colleague, Emily Young, she's a member of the
	8	Commission's counsel team.
03:56:51	9	The purpose of today's interview is to
	10	obtain your evidence, under oath or solemn
	11	declaration, for use at the Commission's public
	12	hearings. This will be a collaborative
	13	interview such that my cocounsel may intervene
	14	to ask certain questions. If time permits your
	15	counsel may also ask follow-up questions at the
	16	end of this interview.
03:57:07	17	This interview is being transcribed
	18	and the Commission intends to enter this
	19	transcript into evidence at the Commission's
	20	public hearing either at the hearing or by way
	21	of procedural order before the hearing is
	22	commenced.
03:57:16	23	The transcript will be posted to the
	24	Commission's public website, along with any
	25	corrections made to it, after it is entered into

	1	evidence. The transcript, along with any
	2	corrections later made to it, will be shared
	3	with the Commission's participants and their
	4	counsel on a confidential basis before being
	5	entered into evidence.
03:57:31	6	You will be given the opportunity to
	7	review your transcript and correct any typos or
	8	other errors before the transcript is shared
	9	with the participants or entered into evidence.
	10	Any nontypographical corrections made will be
	11	appended to the transcript.
03:57:43	12	Pursuant to section 33(6) of the
	13	Public Inquiry Act 2009, a witness at an inquiry
	14	shall be deemed to have objected to answer any
	15	question asked him or her upon the ground that
	16	his or her answer may tend to incriminate the
	17	witness, or may tend to establish his or her
	18	liability to civil proceedings at the instance
	19	of the Crown, or of any person. And no answer
	20	given by a witness at an inquiry shall be used
	21	or be receivable in evidence against him or her
	22	in any trial or other proceeding against him or
	23	her, thereafter taking place, other than a
	24	prosecution for perjury in giving such evidence.
03:58:13	25	As required by section 33(7) of that

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	1	Act you are hereby advised that you have the
	2	right to object to answer any question under
	3	section 5 of the Canada Evidence Act.
03:58:21	4	We will pause for a break around
	5	10:30, but if at any point you need a break
	6	during our discussion this morning please just
	7	let us know and we will pause the recording.
03:58:31	8	RICCARDO COSENTINO: Thank you.
09:02:47	9	KATE McGRANN: Would you please
	10	provide us with a brief description of your
	11	professional experience as it related to the
	12	work that you did on Stage 1 of Ottawa's Light
	13	Rail Transit system?
09:02:57	14	RICCARDO COSENTINO: So, I'm a civil
	15	engineer. I graduated from a U.K. university.
	16	I worked in my early career as a construction
	17	professional.
09:03:07	18	I then pursued a Master in Business
	19	Administration, which led me to work for the
	20	Ontario government at Infrastructure Ontario
	21	doing procurement of major infrastructure
	22	programs for the Ontario government for about
	23	three and a half years.
09:03:26	24	I then joined SNC Lavalin in 2010
	25	where I was responsible for major pursuits on

	1	public-private partnership pursuits. That's
	2	where I started working on the OLRT pursuit back
	3	in 2011 and then for a brief period of time.
	4	And then in 2012 part time as a bid director.
09:03:53	5	I have been working as a professional
	6	with SNC Lavalin since then. I pursued probably
	7	25 major public-private partnerships across
	8	Canada. I was successful in securing five major
	9	projects, and wherever is the financing as well
	10	as overseeing these investments. So I'm
	11	currently still a Board member of Rideau Transit
	12	Group following my role as a bid director for
	13	the consortium back in 2012.
09:04:30	14	KATE McGRANN: And during the time
	15	that you were working in Infrastructure Ontario
	16	what roles did you fill there?
09:04:36	17	RICCARDO COSENTINO: I started as a
	18	project co-ordinator and then I was promoted to
	19	project manager. And I worked on two major
	20	transactions. I work on the Ontario Highway
	21	Service Centre transaction when the Ministry of
	22	Transportation renewed the 23 well, they're
	23	now known as the ONroute service stations.
09:04:53	24	And then I worked on the first civil
	25	project for Infrastructure Ontario for the

	1	Province of Ontario under the AFP model, which
	2	was the Windsor-Essex Parkway, where I basically
	3	took the transaction from Cabinet submission to
	4	the preferred proponent stage, at which point I
	5	left Infrastructure Ontario and joined SNC
	б	Lavalin.
09:05:14	7	KATE McGRANN: And did you have any
	8	particular area of focus when you were working
	9	at Infrastructure Ontario, for example,
	10	technical aspects or financial aspects of a
	11	project?
09:05:38	12	RICCARDO COSENTINO: So my role was
	13	Project Manager so I was responsible for the
	14	overall procurement, obviously under the
	15	stewardship of the Vice President and Senior
	16	Vice President. So I wasn't directly involved
	17	with the financing component but I was project
	18	managing the team a multi-disciplinary team
	19	to bring the entire transaction to bear, and
	20	also working with our client at the time, which
	21	was the Ministry of Transportation.
09:05:55	22	KATE McGRANN: And prior to Stage 1 of
	23	Ottawa's Light Rail Transit system, did you have
	24	any prior rail experience?
09:06:02	25	RICCARDO COSENTINO: Well, I started
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	1	my career as a construction professional on the
	2	railway in the United Kingdom. I had two major
	3	roles, I worked in a project called the West
	4	Coast Main Line modernization, where my role was
	5	to on a particular station was to extend the
	6	platforms in order to allow the passage of high
	7	speed trains.
09:06:28	8	I also worked on an area maintenance
	9	contract in East Anglia where we were
	10	responsible for maintaining all of the
	11	structures on the railway in a particular region
	12	of the United Kingdom.
09:06:36	13	I also had once I left during my
	14	time at Balfour Beatty I was overseeing an
	15	electrification project in the commercial
	16	aspect of electrification project in Greece from
	17	an implementation standpoint, from a risk
	18	management standpoint"".
09:07:01	19	KATE McGRANN: And then you walked us,
	20	at a high level, through your involvement in
	21	Stage 1 of the LRT. Can you just give us a bit
	22	more detail about which roles you fulfilled
	23	during which period of time?
09:07:12	24	RICCARDO COSENTINO: So I started
	25	pre what we call the "request for
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	1	qualification", I was part of the team that
	2	worked to assemble the what is now known as
	3	the "Rideau Transit Group" consortium at the
	4	time.
09:07:28	5	I participated at the beginning in the
	6	request for qualification, but half way through
	7	their request for qualification I was another
	8	project I was working on was reaching a critical
	9	stage, it was the Highway 407 bid.
09:07:40	10	So I departed the project during the
	11	RFQ and came back at around probably
	12	January 2012 as in the role of bid director.
09:07:53	13	There was a bid director for the
	14	consortium who had basically moved on to other
	15	activities within SNC, so I took over that role
	16	as overall bid director representing the
	17	interests of SNC Lavalin, but then in front of
	18	the client I was the nominated bid director.
09:08:14	19	KATE McGRANN: And how long did you
	20	stay in the role as bid director?
09:08:17	21	RICCARDO COSENTINO: Until we reached
	22	financial close, at which point that role
	23	extinguished because we're now entering the
	24	contracting phase. And so my I became Board
	25	member of RTG the day we closed the project.
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09:08:34	1	KATE McGRANN: And with respect to
	2	your role, you said you were bid director on
	3	behalf of SNC. And to the client you are bid
	4	director on behalf of the consortium, is that
	5	right?
09:08:51	6	RICCARDO COSENTINO: That's correct.
	7	Under the procurement process the consortium has
	8	to put forward one representative to represent
	9	the entire consortium, obviously it's a big team
	10	and there's one point of contact. I was that
	11	one point of contact.
09:09:05	12	KATE McGRANN: And who were you
	13	replacing when you came?
09:09:08	14	RICCARDO COSENTINO: A fellow called
	15	Marc Hulin.
09:09:28	16	KATE McGRANN: Were you involved in
	17	any industry consultations prior to the release
	18	of the RFQ for this project?
09:09:35	19	RICCARDO COSENTINO: Not directly, but
	20	I do recall that I didn't personally go to
	21	Ottawa to the market consultation. But I
	22	remember the individual that went for SNC, and I
	23	believe it was Judy Cohen, she was dealing with
	24	that directly. I was just getting briefed after
	25	those events by her.

09:09:58	1	KATE McGRANN: And any particular
	2	notes from the briefing stand out in your mind
	3	as something that RTG saw as a challenge on this
	4	project?
09:10:07	5	RICARDO COSENTINO: I think not
	6	that I can recall. I mean obviously, you know,
	7	there was there was always it wasn't
	8	always clear exactly what procurement model the
	9	City was going to adopt. And I think I think
	10	that was the main it wasn't a concern but the
	11	main question mark for us is, which route is the
	12	City of Ottawa going to take with the
	13	procurement?
09:10:37	14	And I think, if my memory serves me
	15	well, I believe it wasn't a done deal that it
	16	was going to be a private-public partnership
	17	until closer to the release of the RFQ document.
09:10:53	18	KATE McGRANN: And with respect to the
	19	pre-RFQ industry consultations, were there any
	20	areas or topics that you would have expected the
	21	City to canvass that they didn't?
09:11:04	22	RICCARDO COSENTINO: I wasn't directly
	23	involved but I think so, yeah, again by
	24	memory, that's a long time ago. I believe it
	25	was more of a presentation from the City to the

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	1	market rather than a market engagement, I think.
09:11:26	2	From my time at Infrastructure
	3	Ontario, what we did on the Windsor-Essex
	4	Parkway, we went to Windsor and we had a
	5	full-day market event where we presented a
	6	project and then we engaged on a one-on-one with
	7	all the companies that wanted to engage with us
	8	and got feedback.
09:11:45	9	I don't believe that happened in
	10	Ottawa, but I wasn't there.
09:11:51	11	KATE McGRANN: And then getting into
	12	the procurement process itself, did you form an
	13	overall view on the procurement process that the
	14	City ran? Anything that really stood out about
	15	it to you?
09:12:03	16	RICCARDO COSENTINO: No. I think it
	17	was a fairly well run procurement. I think they
	18	followed the best practices in terms of process.
	19	You know, there were commercially confidential
	20	meetings, there was design presentation
	21	meetings, there was some level of engagement
	22	with the proponents, which followed what I was
	23	used to at Infrastructure Ontario.
09:12:27	24	So it felt that, you know, they were
	25	following best practices when it came to the

	1	process.
09:12:34	2	KATE McGRANN: And overall, any
	3	concerns that you're aware of from anyone about
	4	the fairness of the procurement process that the
	5	City ran?
09:12:40	6	RICCARDO COSENTINO: No. No concerns
	7	at all.
09:12:49	8	KATE McGRANN: Focusing more
	9	specifically on the RFP, have I got it right
	10	that you had stepped away from the project when
	11	the RFP was issued, but you rejoined during the
	12	in-market period?
09:13:00	13	RICCARDO COSENTINO: Correct.
09:13:05	14	KATE McGRANN: Can you speak generally
	15	to the project specific output specifications,
	16	or the PSOS for this project? What your view of
	17	those were overall, and then we'll dig into some
	18	details.
09:13:22	19	RICCARDO COSENTINO: I wasn't very
	20	involved with the output specification. As a
	21	bid director I think I was I had an overall
	22	view of the process. I think anecdotally all
	23	I can say is that, like other projects, it was a
	24	very prescriptive set of output specification.
09:13:43	25	I think the name should the name

	1	speaks for itself. It should be output-based
	2	specification. And I think the general feeling
	3	that I had at the time is that it was not that
	4	output-based, it was more prescriptive.
09:13:58	5	But as I said, I wasn't involved
	6	intimately. I wasn't responsible for the
	7	development of the design. I wasn't responsible
	8	for the development of the technical proposal.
	9	My role was to bring the overall proposal
	10	together, leveraging the expertise of a
	11	construction contractor, an O&M contractor, and
	12	all the legal, technical and financial advisor
	13	that are available to the consortium.
09:14:25	14	KATE McGRANN: I understood that you
	15	weren't responsible for the design of the
	16	project. I am going to ask you some questions
	17	about different aspects of the PSOS, and if you
	18	don't have information to share you can just let
	19	me know. But for starters, with respect to the
	20	requirements for the rail itself, were there any
	21	concerns about what the requirements were for
	22	the line?
09:14:50	23	RICCARDO COSENTINO: I don't I
	24	don't recall exactly the details. I think I
	25	don't think they were concerned about the
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	1	alignment itself, or the chosen alignment. I
	2	think that's not something we as a consortium
	3	would opine on. That's a sponsor decision.
09:15:17	4	I think there were concerns about the
	5	architectural design of the stations, and the
	6	intricacy of the design, and specifically also
	7	as we associated you know taken in
	8	association with the affordability cap that was
	9	specified.
09:15:36	10	I think there was some concern about
	11	the vehicle specifications and the
	12	prescriptiveness and some of the
	13	requirements, and the triangulation of certain
	14	requirements that made that, in our opinion,
	15	narrowed the field of potential vehicle
	16	suppliers that could meet those specifications.
	17	Those are the main ones that come to mind.
09:16:07	18	KATE McGRANN: With respect to the
	19	affordability cap, can you speak more to the
	20	reaction of that and how that was addressed in
	21	RTG's bid?
09:16:13	22	RICCARDO COSENTINO: So I think,
	23	again, I said I think that the City followed a
	24	good process and best practices because they
	25	engaged with the proponents during the bid. So
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	1	as we were developing our technical solution and
	2	we were processing our technical solution we
	3	were able to provide feedback to the City on how
	4	and if we could meet the affordability target
	5	that they were specifying.
09:16:39	6	And I think after I joined, and fairly
	7	early on after I joined, it had become clear
	8	that we couldn't quite deliver what the City was
	9	looking for, from an architectural standpoint,
	10	for the station within the affordability cap
	11	provided.
09:16:57	12	And if my memory serves me well, I
	13	believe there was the affordability cap was
	14	changed. I think it was increased at least
	15	once, I believe based on our feedback and
	16	probably the other proponents' feedback, and
	17	some of the requirements for the stations were
	18	also relaxed, so to speak.
09:17:20	19	If we look at the original reference
	20	design concept, which is the design that the
	21	client does before going to market, you can
	22	probably see this really nice rendered, curved
	23	roofs, glass. And that obviously is
	24	architecturally pleasing but extremely expensive
	25	to design and implement and procure.
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09:17:49	1	So we suggested to the City that in
	2	order to meet the affordability cap some of
	3	those station requirements had to be changed,
	4	and other things had to be changed. The
	5	platform length and the tunnels. And you know,
	6	other we made a lot of suggestions in order
	7	to change the specifications in order to meet
	8	the affordability cap.
09:18:12	9	KATE McGRANN: And other than the
	10	architectural requirements for the stations, any
	11	other elements of the project that raise
	12	particular concerns or were the subject of
	13	particular comment requests for change from
	14	an affordability cap perspective?
09:18:29	15	RICCARDO COSENTINO: I'm sure there
	16	were but I can't recall.
09:18:45	17	KATE McGRANN: Do you recall any
	18	particular cost saving or value of engineering
	19	measures that RTG was proposing to take that it
	20	discussed with the City during the in-market
	21	period?
09:18:55	22	RICCARDO COSENTINO: Well, yeah. I
	23	think I mentioned the architectural design of
	24	the station and, you know, the shape of the
	25	roof. I remember jokingly calling it we went

	1	from curved roof to an origami roof. And if you
	2	look at the station today you'll see that
	3	they're all squared, and that was a significant
	4	saving.
09:19:15	5	We had to do a lot of micro climate
	6	analysis. And I think there was more enclosure
	7	than it needed to be in order to have a proper
	8	micro climate.
09:19:26	9	I think our construction technique
	10	and again I wasn't directly involved, but by
	11	recollection our construction technique for the
	12	tunnel was innovative for that project, where
	13	we instead of having a tunnel boring machine
	14	we went for a sequential excavation method,
	15	which allowed us more flexibility in the
	16	construction schedule and provided more
	17	resilience to the tunnel construction.
09:19:55	18	Those were some of the key I think
	19	there was platform design. I can't exactly
	20	recall what the innovation was but I think we
	21	did something innovative with the platform
	22	design, platform length, especially in the
	23	underground stations.
09:20:17	24	KATE McGRANN: Could you just describe
	25	the work that RTG is going through during the
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	1	in-market period to estimate what it will cost
	2	to get this work done and how it will approach
	3	it? So what's done on your end behind the
	4	scenes?
09:20:30	5	RICARDO COSENTINO: So, again, RTG is
	6	the is this at the time is a consortium,
	7	there's no legal entities. But RTG then becomes
	8	the special purpose vehicle and it drops down
	9	the obligation of design and construction to
	10	OLRTC and operation and maintenance to RTM. So
	11	those legal entities are not formed but there's
	12	sort of a shadowing of that structure during the
	13	bid. So RTG would basically request OLRTC to
	14	develop the design. And so I think that's what
	15	we call "design development", to
	16	approximately and it's typical for
	17	public-private partnership projects, a typical
	18	20, 30 percent design is developed.
09:21:15	19	So the City provides us or the
	20	client provides us with a reference concept,
	21	which is nonbinding for their part. It's more
	22	of a demonstration that the project can be
	23	built. That's just one solution. So the bidder
	24	is are then tasked to develop their own
	25	solution.

09:21:34	1	So the reference concept is typically
	2	a 5 percent design. And so the bidders take it
	3	to 20, 30 percent. It's not a homogeneous
	4	30 percent. You basically design, develop the
	5	component of the project that way you want to
	6	get more or less certainty, right? So if you
	7	have a risky element of the project you probably
	8	take it to 35, 40 percent design to truly
	9	understand the complexity of that element.
09:21:58	10	And there are other elements that are
	11	not that critical, you only do 5 percent design
	12	and you end up at 20, 30 percent design average
	13	for in order to have a sense of quantities
	14	and sequencing of work.
09:22:15	15	So that design is developed and then
	16	quantities are taken off, and those quantities
	17	are priced. And then also from that design you
	18	do the construction sequencing, you develop your
	19	program the construction schedule.
09:22:30	20	And all of that is happening in
	21	collaboration with the maintenance group, in
	22	parallel, because as you develop your design
	23	solution you want to make sure that you include
	24	the comments and input from the maintenance team
	25	so that there's a whole-life approach taken on
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	1	the design development and to the implementation
	2	of the project.
09:22:56	3	So all of that was happening. It
	4	wasn't happening so we didn't go into a room
	5	for nine months and develop that and then submit
	6	the bid. The City had a process, which is best
	7	practice, to have design presentation meetings
	8	where we would develop component, then present
	9	it to the City, get feedback through the design
	10	presentation process. It's a formal document,
	11	the feedback process, where the City tells us if
	12	our design is compliant or not.
09:23:24	13	Based on that feedback we make
	14	refinements in order to make sure that by the
	15	time we submit the bid it's a compliant bid.
09:23:34	16	KATE McGRANN: Who from the City were
	17	you predominantly interacting with during the
	18	in-market period?
09:23:40	19	RICCARDO COSENTINO: It was a team.
	20	That were in a design presentation meeting it
	21	could have been probably 25, 30 people in the
	22	room, or multiple stakeholders. So obviously
	23	there was a technical advisor for the City,
	24	financial advisors, other advisor. And the City
	25	would also bring stakeholders. So it wouldn't

	1	be uncommon if we were presenting the station
	2	design that maybe other City stakeholders would
	3	be present.
09:24:05	4	And so at the CCM, commercially
	5	confidential meetings, so two streams,
	6	commercially confidential meetings were more
	7	contractual, design presentation meetings were
	8	more technical. So obviously at the
	9	commercial CCM it would be more legal
	10	legally focused than commercially focused, so
	11	you wouldn't have the same people. So there
	12	probably was another 15 people at the CCM,
	13	different from the 20, 25 for the DPM.
09:24:41	14	KATE McGRANN: You mentioned the
	15	technical advisor for the City, would that be
	16	representatives of Capital Transit Partners?
09:24:46	17	RICCARDO COSENTINO: I believe so,
	18	yes.
09:24:50	19	KATE McGRANN: And then you mentioned
	20	legal advisors, financial advisors, would that
	21	be people from Deloitte?
09:24:58	22	RICCARDO COSENTINO: For the financial
	23	advisor, yes, it was Deloitte; and for the
	24	legal, BLG.
09:25:06	25	KATE McGRANN: And any other advisors

	1	that you interacted with during your work on the
	2	project?
09:25:11	3	RICCARDO COSENTINO: I believe
	4	Infrastructure Ontario was there as an advisor
	5	and I believe Boxfish was there as an advisor as
	6	well.
09:25:19	7	KATE McGRANN: And could you speak
	8	briefly to what you understood the roles of each
	9	of those two advisors to be?
09:25:27	10	RICCARDO COSENTINO: So for
	11	Infrastructure Ontario I believe they were an
	12	advisor to the City of Ottawa, and they were not
	13	procurement agent, they were just an advisor to
	14	the City. And same with Boxfish, it was an
	15	advisor to the City. Who I believe or we
	16	believed to be an advisor to the Mayor.
09:25:47	17	KATE McGRANN: You believed to be an
	18	advisor to the Mayor?
09:25:51	19	RICCARDO COSENTINO: Yes.
09:25:52	20	KATE McGRANN: And what led to you
	21	forming that view?
09:25:54	22	RICCARDO COSENTINO: Speculation.
09:25:56	23	KATE McGRANN: Speculation based on
	24	what?
09:25:57	25	RICCARDO COSENTINO: Hearsay. I

	1	probably didn't have any reason to believe that.
09:26:05	2	KATE McGRANN: And who from Boxfish
	3	were you interacting with?
09:26:09	4	RICCARDO COSENTINO: Brian Guest.
09:26:12	5	KATE McGRANN: Anybody else?
09:26:12	6	RICCARDO COSENTINO: I think mostly
	7	Brian Guest. I think as we proceeded maybe
	8	there were I can't remember if Simon Dupuis
	9	[ph] was involved or if I'm getting confused for
	10	Stage 2, because I was also responsible for the
	11	negotiation of Stage 2, let's say mostly Brian
	12	Guest.
09:26:38	13	KATE McGRANN: Did you form a view of
	14	the effectiveness of the work of the City's
	15	advisors during the procurement?
09:26:47	16	RICCARDO COSENTINO: I think I
	17	didn't, but I can based on my experience
	18	running a procurement for a similar
	19	procurement for Infrastructure Ontario, I think
	20	it was following the it was following what I
	21	would have done had I still been on that side.
09:27:13	22	So I think from a process standpoint
	23	it was a well-run process.
09:27:20	24	KATE McGRANN: And then with respect
	25	to the substance of we'll take the CCM and

	1	DPM meetings differently, but if your view is
	2	the same then you can just let me know.
09:27:28	3	Starting with the CCM meetings, how
	4	would you describe the City's approach to those
	5	meetings?
09:27:39	6	RICCARDO COSENTINO: I think for the
	7	CCM it was difficult. There was I clearly
	8	remember, you know, in the industry especially
	9	in Ontario there was an what we call an
	10	"established template" of what a public-private
	11	partnership would look like, an AFP at the time.
	12	Because you need to have a bankable you need
	13	to have a bankable Project Agreement that can be
	14	financed.
09:28:04	15	And I think we felt that the City made
	16	significant changes to what is the Ontario
	17	template, clearly was not their template and
	18	they were very clear in expressing that. They
	19	were not Infrastructure Ontario and, therefore,
	20	they weren't bound by the same template.
09:28:22	21	However, that template was a
	22	bankable an established, bankable document.
	23	So making modification to that was complicating
	24	the process of raising, financing and securing
	25	internal approvals.
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2       amount of comments and discussion on something         3       that shouldn't have probably been that         4       difficult, because there was an established         5       industry precedent within the Province of         6       Ontario.         09:28:57       7         KATE MCGRANN: What changes do you         8       recall being made that were creating issues,         9       from your perspective?         09:29:07       10       RICCARDO COSENTINO: I can't remember         11       specifically. Well, I mean, I guess the         12       milestone was a big change, even though it         13       wasn't a complete change for the Ontario         14       template because we had similar milestones on         15       the Windsor-Essex Parkway, even though they were         16       not as discreet as the milestone in Ottawa.         09:29:40       17       But it was injurious affection. I         18       think we had a lot of discussion about injurious         19       affection and how the City wanted us to take         20       injurious affection risk.         09:29:53       21       KATE McGRANN: I'm sorry, what risk is         22       that? I didn't catch it?         09:29:57	09:28:39	1	So we had to go through significant
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09:30:01 25 KATE McGRANN: What is that?		24	affection.
	09:30:01	25	KATE McGRANN: What is that?

2 but if I remember correctly this is the risk 3 a lawsuit against the project, not against the 4 development of the project or the construction 5 of the project but general a lawsuit again 6 the project. 09:30:27 7 So the City wanted us to be the final	ne on nst cst
<ul> <li>4 development of the project or the construction</li> <li>5 of the project but general a lawsuit again</li> <li>6 the project.</li> </ul>	on Ist
5 of the project but general a lawsuit again 6 the project.	nst
6 the project.	rst
09:30:27 7 So the City wanted us to be the fin	
	-ho
<sup>8</sup> respondent, and we clearly said, We're just t	TIG 1
<sup>9</sup> contractor. We didn't choose the project. W	le
<sup>10</sup> didn't choose the alignment. We didn't do th	ıe
<sup>11</sup> expropriation. So this is a case where some	ody
<sup>12</sup> was [indecipherable] the City with legal	
<sup>13</sup> action against the project sponsor, and the (	City
<sup>14</sup> wanted us to be the first respondent to that	
<sup>15</sup> claim, which is not and so I think we want	ed
<sup>16</sup> an indemnity on that. That's one example and	1,
<sup>17</sup> again, it was an established precedent.	
09:31:03 18 KATE McGRANN: Other than the change	jes
<sup>19</sup> that were made to the established Ontario	
<sup>20</sup> template that you've described, any other	
<sup>21</sup> aspects of the CCMs that were difficult from	
22 RTG's perspective?	
09:31:18 23 RICCARDO COSENTINO: No. I think -	
<sup>24</sup> it's a commercial negotiation so I think	
<sup>25</sup> everything was done in a professional manner	,

	1	and I think everything was going went
	2	according to our expectation.
09:31:31	3	KATE McGRANN: And ultimately you were
	4	able to RTG was able to finance the project
	5	so I take it you were able to get past whatever
	б	challenges you encountered?
09:31:41	7	RICCARDO COSENTINO: Yes.
09:31:42	8	KATE McGRANN: And then with respect
	9	to the DPMs, the design presentation meetings,
	10	how would you characterize the City's approach
	11	to those meetings?
09:31:50	12	RICCARDO COSENTINO: Similar. Where
	13	it was, again, it goes back to having a
	14	prescriptive set of specifications. I think it
	15	was a very involved process. I think the
	16	feedback was very detailed and the amount of
	17	noncompliance/compliance was probably high. But
	18	it was a good dialogue, right? It was good
	19	input. And I think there was a lot of effort
	20	from all parties to come to the best solution.
09:32:18	21	So to a certain degree it was
	22	collaborative. I guess maybe from our side some
	23	of the frustration was that the specification
	24	was quite prescriptive and, therefore, the
	25	feedback that we were receiving was in line with

	1	those prescriptions. Because obviously the City
	2	was expecting certain things, and they have
	3	specified, and maybe at times we felt that they
	4	didn't have to go to the degree of
	5	specification.
09:32:49	6	KATE McGRANN: And what were the
	7	implications of the level of specification that
	8	the City was reaching for for the work that you
	9	and everybody you were working with was doing?
09:33:00	10	RICCARDO COSENTINO: Well, the
	11	implication is that it constrains innovation, it
	12	constrains the ability of a large consortium
	13	with a lot of experience and expertise to bring
	14	that expertise to the table. Because the
	15	solution is prescribed and is not left to us to
	16	develop.
09:33:18	17	KATE McGRANN: And do you recall any
	18	particular aspects of the specifications, or
	19	specific requirements from the City, that you or
	20	your colleagues felt were leading to a system
	21	that was less than it could be?
09:33:38	22	RICCARDO COSENTINO: The vehicle. The
	23	vehicle specification was extremely
	24	prescriptive. And, yeah, I think that's one
	25	area that created a lot of anxiety on the

	1	outside.
09:33:54	2	KATE McGRANN: Can you describe
	3	generally the approach that was taken to the
	4	procurement of the vehicles on this project,
	5	from the City's approach, and then how that fed
	6	into what RTG did to identify its vehicle
	7	supplier?
09:34:09	8	RICCARDO COSENTINO: Yeah. So it
	9	started before I joined so I before I joined
	10	the second time. But I believe that there was
	11	a the City mandated a process within the RFP
	12	document where the three proponents would have
	13	to go out and solicit proposals from all vehicle
	14	and signaling providers. I believe the original
	15	intent was for the City to review those
	16	proposals, alongside the proponents. And so all
	17	those proposals were supposed to be submitted
	18	for review to the City.
09:34:42	19	I cannot recall if they were actually
	20	submitted or not, but, irrespective, I think
	21	that changed and instead the City asked us to
	22	present our solution our selection to them
	23	instead of presenting them all of the proposals.
09:35:00	24	So then obviously we ran that process.
	25	We short listed "we" I mean the consortium,

	1	it was really the construction team. They short
	2	listed, I believe it was three teams. I believe
	3	it was Alstom, Siemens and CAF, those were the
	4	main suppliers.
09:35:16	5	We also talked to others. We talked
	б	to Ansaldo, we talked to Kinkisharyo, Rotem.
	7	But in the end the three teams that the
	8	construction team put forward was Alstom,
	9	Siemens and CAF. Bombardier at the time was
	10	obviously not with Alstom. Bombardier was not
	11	available to the other two proponents because
	12	Bombardier made the decision of joining a team
	13	at the RFQ stage, so they committed to one
	14	specific team up front.
09:35:56	15	So in that process obviously the
	16	specifications were prescriptive. I think
	17	the I believe the City wanted a low-floor
	18	vehicle that was service proven, that could
	19	reach speeds of, I think it was 100 kilometres
	20	an hour, or close to that speed, with a certain
	21	acceleration. And it was always felt that when
	22	you triangulate all those parameters there
	23	aren't many suppliers that can meet that.
09:36:33	24	We always felt that maybe some of
	25	those requirements were unnecessary. When we
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	1	think of segregated right-of-way, like is the
	2	OLRT, a low-floor vehicle is helpful when you
	3	are in an urban environment, when you're in
	4	mixed traffic. So you have people that go from
	5	the curb on to the streetcar, or to the vehicle,
	6	so you obviously want a low floor.
09:37:03	7	But when you have a segregated
	8	right-of-way where you can actually build as
	9	high to the platform to meet the height of the
	10	entrance of the vehicle, it adds a requirement
	11	that maybe wasn't necessary. And, obviously,
	12	when you have a low-floor vehicle, reaching a
	13	high speed is more difficult because the wheels
	14	are smaller.
09:37:24	15	So those were all things I mean, I
	16	learned a lot from that process about vehicles,
	17	more than I ever imagined.
09:37:32	18	But in the end I believe we selected
	19	our vehicle supplier, our preferred vehicle
	20	supplier. We presented our solution at the DPM,
	21	the presentation meeting, and we received
	22	negative feedback on the supplier that we had
	23	selected.
09:37:50	24	KATE McGRANN: And who was your
	25	preferred vehicle supplier?
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09:37:54	1	RICCARDO COSENTINO: CAF.
09:37:56	2	KATE McGRANN: And what was the
	3	substance of the negative feedback that you
	4	received?
09:38:00	5	RICCARDO COSENTINO: Mostly it was the
	6	argument that it was not a service proven
	7	vehicle. So we didn't obviously we felt it
	8	was a service proven vehicle. A lot of the
	9	component all the components were service
	10	proven. But the CDI, the vehicle itself, was
	11	not the entirety of the vehicle in that
	12	particular configuration that we presented was
	13	not service proven.
09:38:30	14	So I think after the DPM, and after
	15	receiving the compliance feedback, we I think
	16	we organized we tried to have another ad hoc
	17	CCM with the City, at our request, to try and
	18	explain why we felt that the vehicle was service
	19	proven.
09:38:47	20	KATE McGRANN: So did you say you had
	21	another CCM or another
09:38:50	22	RICCARDO COSENTINO: It was on ad hoc
	23	CCM. So the way the process is structured so
	24	the meetings are scheduled by the City. So the
	25	DMP and CCM is all organized and scheduled by

	1	the City. However, the proponents can request a
	2	special meeting, called on "ad hoc CCM", I
	3	believe it was one or two that we had available
	4	and we can choose the topic. And so we decided
	5	to we elected to call an ad hoc CCM in order
	6	to have further discussion with the City about
	7	the CAF vehicle.
09:39:26	8	KATE McGRANN: And what was the
	9	outcome of that meeting?
09:39:31	10	RICCARDO COSENTINO: The outcome of
	11	that meeting was conclusive. The City said,
	12	This is a noncompliant vehicle. If you it's
	13	a noncompliant vehicle and we're not going to
	14	it's not going to be an acceptable solution to
	15	the City.
09:39:45	16	KATE McGRANN: And so what did RTG and
	17	its subcontractors do in response to that
	18	decision by the City?
09:39:51	19	RICCARDO COSENTINO: We went to the
	20	only other the only other vehicle supplier
	21	that could meet the specification and was
	22	available to the market, which was Alstom.
09:40:01	23	KATE McGRANN: And What happened to
	24	Siemens, the third vehicle
09:40:03	25	RICCARDO COSENTINO: So Siemens so
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	1	we were talking to Siemens, and because it was a
	2	negotiation obviously the other proponents were
	3	also talking to Siemens.
09:40:15	4	And so we as our construction team
	5	was weighing all the options and trying to
	6	understand the solution, Siemens asked I
	7	think Siemens wanted to have a quicker
	8	resolution of the process, and we couldn't
	9	provide that because we were assessing all of
	10	our options. So Siemens asked to be released so
	11	that they could join the other team.
09:40:39	12	KATE McGRANN: And before I ask you
	13	some questions about how things proceeded with
	14	Alstom, what was your understanding of what the
	15	proven service requirement meant? What would it
	16	take to meet it?
09:40:50	17	RICCARDO COSENTINO: I don't remember
	18	the specific I think there was a specific
	19	requirement in terms of amount of kilometres
	20	performed, number of vehicles that had been put
	21	in service in other jurisdictions. I don't
	22	recall the details.
09:41:13	23	KATE McGRANN: At what point in time
	24	in the life of the RFP was Alstom brought on as
	25	RTG's vehicle supplier?
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09:41:23	1	RICCARDO COSENTINO: I think I
	2	believe I joined in January. The bid was
	3	submitted the technical bid was submitted in
	4	September. So just I don't recall the
	5	specific time but I have to say it's probably
	6	going to be June, July of 2012, but I might be
	7	wrong, maybe earlier, it would be earlier than
	8	that.
09:42:01	9	KATE McGRANN: Did RTG and Alstom have
	10	the opportunity to go through the confidential
	11	meetings that were originally envisioned for the
	12	vehicle as part of the project? So did you get
	13	to have all the conversations with the City that
	14	you should have?
09:42:18	15	RICCARDO COSENTINO: I don't recall.
09:42:27	16	KATE McGRANN: And what was the City's
	17	response to the Alstom selection from a service
	18	proven perspective?
09:42:32	19	RICCARDO COSENTINO: I don't recall
	20	the specifics but I don't recall any issues. I
	21	think once we dropped CAF and took on Alstom, I
	22	think after that we just proceeded with our
	23	with developing our solution and submitted the
	24	bid.
09:42:48	25	As I said, you're asking I can't

	1	remember if we went through a design
	2	presentation meeting, I would have to look
	3	through my the records.
09:42:56	4	I think if there was a design
	5	presentation meeting about Alstom it should be
	б	in the data room, because obviously that would
	7	have received feedback from the City. Because
	8	every design presentation meeting would provide
	9	feedback. I never actually I didn't research
	10	that in my part.
09:43:16	11	KATE McGRANN: Do you recall whether
	12	any waivers were sought or granted for
	13	noncompliance with respect to the Alstom
	14	vehicle?
09:43:22	15	RICCARDO COSENTINO: No. There wasn't
	16	such a thing, right? There's no like
	17	public-private PPP bid. There is no where
	18	you have to submit a 100 percent compliant bid.
09:43:39	19	KATE McGRANN: Any surprise on RTG's
	20	end that Alstom was accepted as a vehicle for
	21	this project?
09:43:44	22	RICCARDO COSENTINO: No.
09:43:44	23	KATE McGRANN: Why had RTG chosen CAF
	24	over Alstom in the first place?
09:43:50	25	RICCARDO COSENTINO: I don't recall

1	the specific. I believe it was you know, it
2	was a selection process and I believe CAF put
3	forward the most compelling proposal to us, and
4	I think they were better prepared to support the
5	project.
6	And, as I said, it could have been a
7	component of quality and price in terms of the
8	proposal. As I said, there was a committee of
9	individuals that selected the vehicle, it wasn't
10	just one person. And there was a proper process
11	that was run by RTG's consortium members. And
12	then CAF provided the best solution for all our
13	needs.
14	KATE McGRANN: With respect to the
15	manufacturing proposal that was put forward for
16	the vehicles, can you speak to how that was
17	envisioned?
18	RICCARDO COSENTINO: You refer
19	you're referring to the local content?
20	KATE McGRANN: I assume that may
21	come into it, but I'm speaking more generally to
22	what was the plan for where the vehicles would
23	be built and how?
24	RICCARDO COSENTINO: And are you
25	asking that in relation to CAF or in relation to
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 21 22 23 24

	1	Alstom?
09:45:09	2	KATE McGRANN: In relation to Alstom.
	3	Thank you for clarifying.
09:45:19	4	RICCARDO COSENTINO: In relation to
	5	Alstom the plan was to assemble the vehicle in
	6	the maintenance facility. If I remember
	7	correctly there was the first two prototypes
	8	would be developed in Paris, or in France, at
	9	their facility there; they would be shipped to
	10	Hornell and then some more assembly done in
	11	Hornell; but in order to meet with the local
	12	content requirements the idea was to finish the
	13	assembly in Ottawa.
09:45:46	14	And I again, I don't recall exactly
	15	but I well, that was the plan. Yeah, the
	16	plan was Paris for the first two prototypes,
	17	shipped to Hornell, further assembly and then
	18	final assembly in Ottawa, in the MSF.
09:46:05	19	KATE McGRANN: And any discussions or
	20	concern about whether the manufacture or
	21	assembly of these vehicles in a new environment
	22	would increase the risk of issues that the
	23	vehicles would require additional work down the
	24	line to troubleshoot, or anything like that?
09:46:21	25	RICCARDO COSENTINO: Not that I'm

	1	aware of. At the time of the bid we always felt
	2	it was a clever way of meeting the requirements
	3	and providing a lower cost, which was paramount
	4	to the bid. Because the bid is evaluated on the
	5	lowest NPV basis and there was an affordability
	6	cap. So we felt that was a very cost-effective
	7	way of meeting the local content requirement and
	8	providing a vehicle to the project.
09:47:03	9	KATE McGRANN: I do have some
	10	questions about the local content requirement,
	11	but before I get to them, what were the driving
	12	factors in the decision to manufacture the
	13	vehicles largely out of the maintenance and
	14	storage facility in Ottawa?
09:47:14	15	RICCARDO COSENTINO: I think it was
	16	I think it was cost as well as meeting the local
	17	content requirements.
09:47:23	18	KATE McGRANN: And what impact did the
	19	local content requirements have, generally, on
	20	this particular project?
09:47:38	21	RICCARDO COSENTINO: I mean, I don't
	22	have direct experience in vehicle assembly
	23	requirements and challenges. I know what I have
	24	anecdotally been briefed on as a Board member of
	25	RTG, so I know what the challenges ended up
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	1	being after the fact.
09:48:01	2	At the time, as I said, we felt we
	3	were in a position. We wanted to put forward a
	4	competitive bid. We were trying to find a way
	5	of cutting costs and still meeting the
	6	requirements, and we felt that that was it
	7	was a clever way of doing that. Hindsight
	8	afterwards, as I've been briefed as a Board
	9	member, there was obviously supply chain
	10	challenges.
09:48:33	11	It's not as simple to set up a new
	12	supply chain in a new country, in a new City.
	13	There were shortages, still there were shortages
	14	to be able to assemble the vehicle. But at the
	15	time of the bid we had a lot of optimism bias.
	16	We felt that that was all going to be we were
	17	all going to be able to work on that.
09:48:59	18	KATE McGRANN: And at any point during
	19	the in-market period, or following, was there
	20	any discussion with the City about whether the
	21	Canadian content requirements could be relaxed
	22	in any way?
09:49:11	23	RICCARDO COSENTINO: I mean, I believe
	24	we raised that comment as part of the CCM
	25	process we commented on the Project Agreement.

	1	I'm pretty sure that was one of the comments we
	2	raised. Could the content requirement the
	3	local content requirement be relaxed? And I
	4	this I the answer was, "no".
09:49:33	5	KATE McGRANN: And did it ever come up
	6	again on the project?
09:49:39	7	RICCARDO COSENTINO: I don't know.
09:49:40	8	KATE McGRANN: You mentioned "optimism
	9	bias" as something that took that formed part
	10	of maybe you can help me understand what
	11	optimism bias is and how it played into the
	12	decision-making on this project, in your view?
09:49:56	13	RICCARDO COSENTINO: I think we need
	14	to talk about optimism bias in general. I think
	15	there's so optimism bias is basically this
	16	proven research it comes from research called
	17	"prospect theory", which has been applied to
	18	major projects; where basically human beings are
	19	able to they assume that they never assume
	20	the worst is going to happen in order to achieve
	21	a certain outcome.
09:50:28	22	So it has been established that for
	23	major programs there's a lot of optimism bias at
	24	the beginning of the project. And, in fact, I
	25	think I I think I'd like to quote Professor
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	1	Flyvbjerg, who provided testimony to another
	2	Inquiry in Canada, where he articulated that the
	3	root causes of major program delays and major
	4	program overspend is associated with two
	5	factors, optimism bias and strategic
	6	misrepresentation that occurs at the time the
	7	investment decision to pursue the project is
	8	made.
09:51:13	9	So I think all parties typically
	10	involved in these major pursuit are subject to
	11	optimism bias, because we are trying to secure a
	12	contract. And so we sometimes human beings
	13	have a tendency to, because of optimism bias, to
	14	overlook the downside in order to move forward
	15	with a certain decision.
09:51:45	16	KATE McGRANN: And with the benefit of
	17	hindsight, are there any particular downsides
	18	that you think were overlooked on this project
	19	when the bid was put together?
09:51:54	20	RICCARDO COSENTINO: Yeah. I mean,
	21	you just have to look at what went wrong and all
	22	of the things that have gone wrong, that's
	23	probably down to optimism bias; and this is my
	24	personal opinion.
09:52:14	25	There are you know, every project

	1	is going to have technical challenges and then
	2	you have experienced professional who
	3	understands the technical challenges.
09:52:28	4	When you anticipate the technical
	5	challenge you can do two during the bid
	6	phase, or during the early stages, you can do
	7	two things. You can say, Okay, this is going to
	8	be a challenge and I have to mitigate it, and I
	9	have to put in place all these things in order
	10	to mitigate it. Or you can say, No, no, we
	11	are we have all the resources. We are very
	12	capable and we are going to overcome that
	13	challenge. That's what optimism bias the
	14	second description is what optimism bias is.
09:53:02	15	And you know, prospect theory, which
	16	is a Nobel Prize winning theory by Daniel
	17	Kahneman, tells you that human beings are
	18	predisposed to have optimism bias, so they're
	19	always going to try and make a decision that has
	20	positive connotation rather than negative
	21	connotation.
09:53:30	22	And Bent Flyvbjerg has demonstrated,
	23	through his research, and then there's his
	24	testimony at the Inquiry into Muskrat Falls,
	25	where the root causes of project delays and,
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	1	by the way, according to Bent Flyvbjerg
	2	research, 80 percent of railway projects around
	3	the world have cost overrun, 8 out of 10
	4	projects have cost overrun and 8 out of 10
	5	projects have schedule overrun.
09:53:56	б	So it is fair to expect that a major
	7	program, which the OLRT is; because according to
	8	Bent Flyvbjerg a project above 1 billion is a
	9	major program. So 8 out of 10 times they're
	10	going to be late and they're going to be over
	11	budget.
09:54:15	12	KATE McGRANN: So a couple of
	13	follow-up questions on that. First of all, when
	14	you said, for example, you can anticipate
	15	technical challenges. And for the technical
	16	challenges you can anticipate you can do one of
	17	two things, you can either look at how to
	18	mitigate it or believe that you will overcome
	19	it. Is that a fair paraphrasing so far?
09:54:35	20	RICCARDO COSENTINO: Yes.
09:54:35	21	KATE McGRANN: Would it be right to
	22	say that if you take the mitigation route you're
	23	then planning to mitigate and pricing that out,
	24	and that's going to have an impact on the price
	25	of your bid?

09:54:46	1	RICCARDO COSENTINO: Correct.
09:54:47	2	KATE McGRANN: And if you take the
	3	optimistic approach and assume that you can
	4	overcome it then there is no planning or
	5	pricing, you're just going to deal with it when
	б	it arises?
09:54:56	7	A. Yes. And you believe that you
	8	have all the means and resources already
	9	available to you to overcome it.
09:55:01	10	KATE McGRANN: And with the knowledge
	11	that 8 out of 10 projects of this nature are
	12	going to come in over budget and not on
	13	schedule, what is what did RTG do to try and
	14	account for that in its bid, or in negotiations
	15	of the Project Agreement?
09:55:19	16	RICCARDO COSENTINO: So as any prudent
	17	organization, I mean, we obviously did risk
	18	analysis, we did schedule analysis. We used all
	19	the tools that are used in the industry to
	20	understand the risk.
09:55:34	21	We're trying to mitigate the risk, but
	22	always working within the envelope of the
	23	affordability cap that was specified by the
	24	client, right? I think you do all of that with
	25	this sword over your head of the affordability
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	1	cap. So you're really trying to come up with
	2	ways to meet all the constraints that you're
	3	faced with.
09:55:59	4	And so I think, you know, the
	5	innovation on the MSF. How do we meet the
	6	costs? How do we meet the local content? How
	7	do we meet the schedule requirements? So we
	8	the team came up with, let's assemble the
	9	vehicle in the MSF. It was meeting a lot of the
	10	requirements, but clearly, in hindsight, it also
	11	brought challenges.
09:56:21	12	So obviously because of optimism bias,
	13	not because of incompetence, it's, as I said, a
	14	human nature, because of optimism bias some of
	15	those challenges were overlooked, not with
	16	malicious intent but just because it's human
	17	nature.
09:56:43	18	KATE McGRANN: Turning back to the
	19	selection of Alstom for another minute. We've
	20	talked about the vehicle, but what did RTG do to
	21	assess Alstom as a maintenance provider for that
	22	aspect of the project?
09:57:04	23	RICCARDO COSENTINO: That I don't know
	24	because that was done by RTM. That I don't
	25	know.
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09:57:12	1	It was not a particular area of focus,
	2	because I think that the maintenance activity, I
	3	guess, in our mind, was a less risky aspect than
	4	the construction activities. Those typically
	5	tend to be the most risky element of the project
	6	and where the most focus takes place.
09:57:36	7	KATE McGRANN: Looking at the number
	8	of interfaces on this project, the interface
	9	between the train and the computer the train
	10	control system, as an example, how did RTG
	11	approach how all of those systems would be
	12	integrated in its bid and then in the Project
	13	Agreement?
09:57:55	14	RICCARDO COSENTINO: I'll just
	15	specify, it's OLRTC that had the obligation to
	16	deliver the construction element of the project.
	17	I was a Board member of RTG so I was briefed by
	18	the management team of RTG, which was one step
	19	removed from the leadership and the
	20	implementation from OLRTC.
09:58:16	21	I mean, having said that, I think
	22	it's based on the briefing I received as a
	23	Board member, and as a bid when I was bid
	24	director, I think it's bringing the expertise of
	25	individuals that have done that before.

09:58:34	1	So, you know, I think SNC had
	2	individuals that worked on the Canada Line where
	3	they have integrated a similar system with
	4	Thales and a different vehicle, but still.
09:58:48	5	And, you know, there are tools
	6	available and available experience on how to
	7	project manage a complex implementation like the
	8	signal and train interface. That is standard
	9	project management practices.
09:59:11	10	So I think all of those practices were
	11	implemented, risk analysis, schedule analysis,
	12	technical collaboration between the parties.
	13	It's not given the right amount of resources
	14	and time it's not an impossible task, it's not
	15	an overly difficult task if planned. Because
	16	it's been done before over and over again, and
	17	it was done before a few times, especially by
	18	SNC Lavalin in British Columbia.
09:59:47	19	KATE McGRANN: And to your knowledge
	20	had Alstom and Thales, like Alstom vehicles and
	21	the Thales signaling system been integrated
	22	together before?
09:59:56	23	RICCARDO COSENTINO: I don't know
	24	that.
09:59:57	25	KATE McGRANN: As RTG's Bid Director,

	1	what involvement did you have in the work that
	2	OLRTC was doing to prepare the response to the
	3	RFP?
10:00:08	4	RICCARDO COSENTINO: It's very similar
	5	to my role as a Board member. I would just get
	6	briefed on the progress and the salient points.
	7	But I was not we had what we call a "bid
	8	office" where I was located at with all the bid
	9	resources. We had weekly progress meetings.
10:00:31	10	Also, because we had to raise
	11	financing, I was responsible for all the
	12	engagement with the lenders, then the technical
	13	advisor.
10:00:43	14	So I was responsible for putting
	15	forward the presentation to the lenders in order
	16	to allow them to do their own due diligence on
	17	the project. So because I was doing that I was
	18	co-ordinating and liaising with OLRTC. So I had
	19	some level of understanding, but not in the
	20	details.
10:01:11	21	KATE McGRANN: In terms of the what
	22	I'll call the steps to prepare the whole system
	23	for revenue service, as at the time that the
	24	that you're the in-market period and then as
	25	the Project Agreement is being negotiated. What
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	1	discussions do you recall, if any, about a dry
	2	running time or a burn-in time to allow the
	3	vehicles to run through the system and shake out
	4	any bugs or identify any latent issues so they
	5	could be addressed?
10:01:41	б	RICCARDO COSENTINO: So I don't recall
	7	those conversations, it doesn't mean they didn't
	8	happen but I don't recall them.
10:01:51	9	KATE McGRANN: Do you recall there
	10	being any concerns on the RTG side with
	11	reference to precedent projects, or otherwise,
	12	about whether there would be enough time to look
	13	at the system as a whole, in operation, and
	14	identify any issues that may need to be
	15	addressed?
10:02:06	16	RICCARDO COSENTINO: I don't think so,
	17	because ultimately the schedule and I don't
	18	believe there was a specified opening date. So
	19	I believe RTG or OLRTC had complete control on
	20	the completion date.
10:02:27	21	KATE McGRANN: And with respect to the
	22	opening date, do you recall what the plans were
	23	for system opening? In terms of how much of the
	24	system would be available? What level of
	25	traffic would be expected? What service was to
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	1	be provided on opening day?
10:02:40	2	RICCARDO COSENTINO: I don't recall.
	3	But I have to assume that it was 100 percent,
	4	that's my sense, that there was always you
	5	know, we want to go full operation right away
	6	type of approach.
10:03:00	7	KATE McGRANN: Do you recall whether
	8	there were any concerns with that approach among
	9	RTG or it's subcontractors?
10:03:05	10	RICCARDO COSENTINO: I don't recall
	11	the concerns because, like I said, I believe we
	12	had I know I would have to triple check, but
	13	I believe we had control of the opening date.
10:03:13	14	So we obviously had, again, this is
	15	optimism bias at its best coming in, right? So
	16	we probably had latitude of when to open the
	17	line, which would then allow us to schedule what
	18	we needed to schedule in order to meet all the
	19	requirements, as specified in the contract,
	20	right?
10:03:33	21	So in theory, you know, you just pick
	22	the date where you have absolute certainty that
	23	you're able to meet all the requirements,
	24	understanding that we had all the requirements
	25	up front. However, you are under competitive

	1	tension, you are in a procurement process. An
	2	elongated schedule means more cost, more costs
	3	means less chance of winning the project. So
	4	you then have to make those commercial
	5	trade-offs in order to secure the contract.
10:04:03	6	Because if you start allowing all of
	7	the contingency that you need to have
	8	100 percent certainty you're probably not going
	9	to be able to win the project.
10:04:14	10	KATE McGRANN: With respect to the
	11	maintenance requirements for the project, and
	12	the payment mechanism that would be applied
	13	during the maintenance period, were there any
	14	particular concerns or challenges with what the
	15	City was proposing?
10:04:33	16	RICCARDO COSENTINO: We had discussion
	17	during the CCMs about the payment mechanism, we
	18	provided comments, we had back-and-forth.
10:04:39	19	I think there's always a tendency from
	20	our side to make sure that it's not a punitive
	21	regime. We felt that maybe some areas were a
	22	little bit punitive, but in dialogue with the
	23	City during the CCM we got ourselves comfortable
	24	that even though it might be punitive maybe they
	25	weren't going to be implemented in a punitive
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	1	way.
10:05:11	2	So again, maybe some optimism bias
	3	from our side where we kind of saw that there
	4	could have been problems with the payment
	5	mechanism, or the implementation of the payment
	б	mechanism. But we probably made a decision that
	7	we can probably work through the issues as they
	8	arise.
10:05:27	9	KATE McGRANN: Do you remember any
	10	particular aspects of the payment mechanism that
	11	were the subject of concerns that they were
	12	punitive?
10:05:33	13	RICCARDO COSENTINO: No, I don't. But
	14	there would be a record of it because we would
	15	have submitted written comments to the Project
	16	Agreement as part of the CCM process.
10:05:52	17	KATE McGRANN: And do you remember how
	18	you got comfortable that even if there were
	19	elements that could be punitive they wouldn't be
	20	applied in a punitive way by the City?
10:06:00	21	RICCARDO COSENTINO: You know,
	22	discussion during the CCM, you build a rapport
	23	during the CCM, you work through the issues, you
	24	have discussion. And you know, there's PPP,
	25	it's a partnership so you take certain comfort

	1	in that, that this is a partnership and,
	2	therefore, there's a common interest and a
	3	common objective. You're basically you're
	4	trying to rationalize optimism bias, I guess.
10:06:32	5	KATE McGRANN: Did you form a view of
	6	what you expected the City to be like as a
	7	counterpart on this project through your work
	8	during the bid phase?
10:06:42	9	RICCARDO COSENTINO: During the bid
	10	phase we knew just based on the way that they
	11	amended the template contract that was
	12	established, given that they were they had a
	13	very prescriptive set of specifications. Given
	14	that they had a very ambitious program with not
	15	enough money to deliver the program, we knew it
	16	was going to be challenging.
10:07:10	17	But, again, you're always trying to
	18	think positive. And I guess we knew that we
	19	were going have challenges but we would have to
	20	work through them.
10:07:27	21	KATE McGRANN: Fair enough. But with
	22	respect to how the City would be, like, how you
	23	anticipated the City would act and approach
	24	those challenges with RTG, did you form any sort
	25	of view of what kind of approach they would

	1	take?
10:07:40	2	RICCARDO COSENTINO: I mean, based on
	3	how the that was my initial answer, based on
	4	how they behaved during the procurement process
	5	we knew it was going to be a difficult
	6	relationship.
10:07:53	7	KATE McGRANN: And when you say you
	8	knew it was going to be a difficult
	9	relationship, what aspects of it did you think
	10	were going to be difficult?
10:08:04	11	RICCARDO COSENTINO: No flexibility.
	12	I think we saw during the procurement phase in
	13	requesting changes to the specification, even
	14	just the whole issue with CAF and Alstom, how
	15	set in their ways they were. We knew that would
	16	translate into a pretty difficult contract
	17	management relation.
10:08:29	18	KATE McGRANN: Anything that was done,
	19	based on that anticipation of a difficult
	20	relation, in the negotiation of the Project
	21	Agreement to try to account for that?
10:08:36	22	RICCARDO COSENTINO: Yes. We submit
	23	comments, right? We are always trying to change
	24	to provide changes to the agreement that would
	25	help us have a better, more balanced relation so

	1	that it's not you know, the contract is not
	2	heavily skewed towards who is writing the
	3	contract and it's a bit more fair. But at the
	4	end of the day we don't write the contract. We
	5	can provide comments.
10:09:09		-
10.09.09	6	And then you really have if those
	7	comments are not accepted you really have two
	8	options in the procurement, you either walk away
	9	or bid, and you bid as is. You don't have
	10	there is no there is no allowance for
	11	qualification, if you submit a qualification
	12	with your bid you're disqualified.
10:09:28	13	So you try your best during the
	14	procurement process, and then you either walk
	15	away, you bid as is, or you price all the
	16	contingencies that you think you're going to
	17	need, knowing very well that you're most likely
	18	not going to win the project.
10:09:46	19	KATE McGRANN: And for people who
	20	wouldn't be familiar with what different
	21	pressures are operating at that point in the
	22	bid, how available is the walk-away option?
	23	What forces come into play there?
10:09:58	24	RICCARDO COSENTINO: It's not very
	25	available. I mean, it's a last resort. I think

	1	it's important to remember a bid of this
	2	complexity can cost north of \$20 million to put
	3	together.
10:10:13	4	I can't remember the exact the
	5	amount of stipend that the City provided.
	б	"Stipend" meaning like a remuneration to the
	7	losing proponent that doesn't get selected. But
	8	certainly the stipend does not cover the entire
	9	cost of the bid and the pursuit.
10:10:29	10	And I think the north of \$20 million
	11	is just external resources to develop the
	12	design, that doesn't take into account the
	13	overheads from the corporation that are
	14	involved.
10:10:40	15	So it's a significant investment that
	16	you make of time, and there's a humungous
	17	opportunity cost that you undertake whenever you
	18	take on these opportunities. Because if you
	19	take on this project it means you're not going
	20	to pursue other 10 projects. So the opportunity
	21	cost is even bigger than the actual cost.
10:11:04	22	So walking away towards the end of the
	23	bid, it's an extremely difficult decision. And
	24	I believe and I believe clients understand
	25	that and used that.

10:11:21	1	KATE McGRANN: Now, you mentioned that
	2	there were concerns that some of the aspects of
	3	the payment mechanism may have been punitive but
	4	that RTG got comfortable that they wouldn't be
	5	applied in a punitive way. Has that expectation
	6	borne out in practice?
10:11:37	7	RICCARDO COSENTINO: No.
10:11:38	8	KATE McGRANN: Could you speak about
	9	that?
10:11:39	10	RICCARDO COSENTINO: Yeah. I mean as
	11	a Board member of RTG, I mean, I'm I think
	12	that one example is the carry-forward of
	13	penalties. I think that it's a and I need to
	14	be careful because we're in dispute.
10:12:00	15	But there's a dispute on how penalties
	16	are accrued, and if a penalty from
	17	month-to-month should be carried forward.
10:12:08	18	And so I think our interpretation of
	19	the contract is that every month we accrue
	20	penalties we get penalized, we have a deduction
	21	against that. And I think there's a limit to
	22	the deduction that can be applied. And I think
	23	once the deduction has been applied then the
	24	overage just disappears.
10:12:27	25	That interpretation where the overage

	1	gets carried over to the following month and
	2	added to any new deductions, creating a fairly
	3	punitive environment. And I believe that's
	4	under dispute at the moment.
10:12:42	5	KATE McGRANN: What has the impact of
	6	that punitive environment been on RTM's ability
	7	to live up to its obligations under the Project
	8	Agreement?
10:12:51	9	RICCARDO COSENTINO: You know, I mean
	10	there's obviously there's two components I
	11	would say. And, again this is as RTG, and I'm
	12	not a member of the RTM Board so I only get
	13	briefed as an RTG Board member so I have limited
	14	knowledge. But I believe there's a shortage of
	15	cash.
10:13:11	16	There is the typical death by a
	17	thousand cuts. Maybe they are not it's not
	18	just one single thing, it's a lot of things that
	19	are happening. There's a disruption, there's a
	20	lack of trust, there's frustration, all these
	21	elements that impede the normal course of
	22	operation.
10:13:37	23	But I think, you know, the financial
	24	implications are important, because as you apply
	25	financial pressure the pressure percolates down

	1	all the way to the bottom of the project, and
	2	that creates animosity and creates a really bad
	3	working environment.
10:13:58	4	KATE McGRANN: Can you speak a little
	5	bit more to how like, the implications of all
	6	of this on the working environment for people
	7	who are working directly on the project
	8	day-to-day?
10:14:06	9	RICCARDO COSENTINO: You know, when
	10	any corporation, even without talking
	11	specifically to RTM, any time a corporation is
	12	under financial distress there are decisions
	13	that are made by senior management, by the
	14	leadership, and those decisions have
	15	implications. And every you know, you can
	16	pump cash into the project but there's a limit
	17	on the financial means of any entity.
10:14:39	18	So this these constraints obviously
	19	put additional scrutiny on the individuals
	20	working on the project, and this additional
	21	scrutiny creates tension. So the work itself is
	22	the same. If you're working on the project you
	23	have to do your job, but now you're doing it
	24	under intense scrutiny because all of the
	25	parties are scrutinizing everything that's

	1	happened, and that creates tension, that creates
	2	stress. And then whenever you're having stress
	3	obviously it creates a really bad working
	4	environment. And this is, I think, in general,
	5	it doesn't have to be specific to RTM, I think
	6	it's applicable to all working environments.
10:15:31	7	KATE McGRANN: Stepping back in time a
	8	bit from the maintenance period and the
	9	operations phase back to the bid phase. I'd
	10	like to ask you some questions about the
	11	geotechnical risk transfer that was affected on
	12	this project.
10:15:49	13	First of all, do you know if anybody
	14	on RTG, or its subcontractors' side, was
	15	involved in any market sounding on the
	16	geotechnical risk approach that was to be taken?
10:16:02	17	RICCARDO COSENTINO: I don't believe
	18	there was any market sounding. I believe, if my
	19	memory serves me well, I believe that the the
	20	regime that was put in place in the Request for
	21	Proposal at the end was the genesis of the
	22	comments that we were providing during the
	23	procurement phase.
10:16:22	24	So basically I can't remember exactly
	25	what the regime was when the Project Agreement

	1	or the RFP was released, but I believe that the
	2	regime that we ended up bidding, I think with
	3	the three options, was something that was
	4	implemented as a consequence of us providing
	5	feedback during the bid process.
10:16:49	6	KATE McGRANN: And what was the nature
	7	of the feedback provided?
10:16:51	8	RICCARDO COSENTINO: It might not even
	9	have been us but it might have been another
	10	proponent. And so I think I believe we
	11	started with 100 percent of the risk passed to
	12	the private sector. And I think at the end we
	13	ended up with the three option where there was a
	14	reward to the proponent that would take the most
	15	risk.
10:17:15	16	And I don't believe it was us that
	17	provided the feedback to the City to implement
	18	that, but it could have been another proponent
	19	or maybe it was us, I don't recall. But it was
	20	not what we ended up in the end was not what
	21	we started with, and it was the consequences of
	22	the feedback during the procurement process.
10:17:32	23	KATE McGRANN: So there was a change
	24	made during the in-market period to the
	25	presentation of the geotechnical risk, it

	1	started with 100 percent over to the private
	2	sector.
10:17:47	3	RICCARDO COSENTINO: Yes. I'm nodding
	4	because my memory is coming back to me. Yes, we
	5	started with 100 percent. And I think I
	б	don't think all the again this is speculation
	7	because I don't know what the other proponents,
	8	but I've done enough of these bids to understand
	9	the mechanics and I've been on the other side as
	10	well so I think I understand the mechanics.
10:18:14	11	I think the reason we ended up with
	12	options was probably because the City was
	13	getting conflicting feedback from the three
	14	proponents. It was getting feedback from one
	15	saying, We can take the risk. And probably
	16	getting feedback from another proponent saying,
	17	We can't take the risk. They couldn't quite
	18	judge the truth so they developed these
	19	mechanisms where, you know what? I don't know
	20	what's true. Can you take it? I will reward.
	21	I will put a reward to whoever takes the most
	22	risk.
10:18:43	23	KATE McGRANN: Do you remember
	24	generally the nature of the feedback that RTG
	25	provided on this aspect of the project?

10:18:48	1	RICCARDO COSENTINO: We I think we
	2	were quite neutral, I think our construction
	3	team was quite neutral. We felt we felt that
	4	our construction technique gave us an advantage.
	5	And again, this yes, I mean, I was in the
	6	room. So we felt that our sequential
	7	excavation method gave us an advantage and
	8	mitigated some of the geotechnical risk compared
	9	to a tunnel boring machine. I don't know if
	10	that's understand, the difference, but I can
	11	elaborate if you want me to.
10:19:28	12	KATE McGRANN: No, that's okay. But I
	13	do need to understand what you mean when you say
	14	your feedback was neutral. Was the feedback,
	15	Yeah, we can take the risk with concerns that
	16	it's bankable, that we may not be able to get
	17	financing? What does that mean?
10:19:37	18	RICCARDO COSENTINO: Yes. We felt
	19	that we could take the risk. Hindsight, I don't
	20	know if that was correct. I think that the
	21	general feeling was, we can do this and if this
	22	gives us a competitive advantage we'll use that
	23	competitive advantage in our bid.
10:20:05	24	KATE McGRANN: And in terms of what
	25	risk was actually transferred, from the

	1	perspective of delivering the project to the
	2	public, what is your view of the effectiveness
	3	of the risk transfer that was done on this
	4	project?
10:20:21	5	RICCARDO COSENTINO: This is an
	6	extremely large philosophical question but I'm
	7	going to try to address it.
10:20:29	8	So there's a school of thought that
	9	says that when you're dealing with a complex
	10	system, when you're dealing with a complex
	11	project, ultimately you can never a project
	12	owner can never really transfer the risk.
10:20:46	13	So you can transfer a component of the
	14	risk. But if you are a project owner who is
	15	looking at the project as an holistic way where
	16	the objective of the project is not to complete
	17	the construction period on time and on budget,
	18	but the holistic of the project is to start
	19	moving passenger from A to B sooner rather than
	20	later, when you're looking at that you can
	21	conclude that you can never a project owner
	22	can never transfer the risk. Because, sure, you
	23	transfer the geotechnical risk, for example, and
	24	so now somebody has the risk that if something
	25	happens that was unforeseen, and the project is

	1	delayed and there's a cost overrun, the project
	2	owner can seek remedies against that entity and
	3	be compensated.
10:21:34	4	So yes, from the geotechnical risk
10:21:39	5	standpoint you have transferred the risk, but
	6	have you really transferred the overall risk?
	7	Which is, if one of those events occurs and is
	8	not managed and mitigated there's a cost and
	9	schedule impact to the ultimate objective, which
	10	is to move people from A to B.
10:21:57	11	And so who is best placed to manage
	12	and mitigate unknown events, unknown occurrences
	13	that will affect the ultimate objective of the
	14	project? And one would argue that a civil
	15	contractor is not the best entity that can
	16	mitigate and manage unknown, unforeseen risks
	17	that will affect the ultimate objective of the
	18	project.
10:22:28	19	KATE McGRANN: And why is that? Given
	20	that the civil contractor is in charge of
	21	construction and has control over means and
	22	methods and schedule, and things like that?
10:22:40	23	RICCARDO COSENTINO: Because, again
	24	I'm going to take a bit of a long route to
	25	explain that. And again it's to do with

	1	complexity. And I think there's a bit of a
	2	fallacy in thinking that a construction project
	3	during a major program is something that is
	4	predictable and manageable.
10:23:05	5	We're dealing and I think that's
	б	part of the problem with major programs and how
	7	misunderstood they are. When you're dealing
	8	with a simple project you have you can
	9	schedule, you can plan, you can articulate what
	10	it's going to take to go from beginning to end.
	11	If you're building a house you're building the
	12	foundation, you're building your walls, and you
	13	have one, two small contractors. And so your
	14	tools, your schedule, your plans, your estimate,
	15	it's all quite workable.
10:23:38	16	But when you start scaling up to a
	17	major program the level of complexity is much
	18	bigger. And so I think what tends to happen,
	19	especially in Canada, is that major programs are
	20	treated as normal programs and the same tools
	21	and approaches are used to mitigate risk, when
	22	in reality it's a completely different kettle of
	23	fish.
10:24:05	24	The example that I always like to give
	25	is, like, if a pilot can pilot a two-seater

	1	propeller plane does that mean that that pilot
	2	can pilot an F35 fighter jet? They are two
	3	completely different machines. And just because
	4	you can pilot or you can manage a small plane
	5	doesn't mean you can manage a large program
	б	(sic). So I think what works on small projects
	7	doesn't really work on major programs, but I
	8	think that the understanding is lacking.
10:24:42	9	So, sure, the civil contractors
	10	control some things, but we're dealing with a
	11	complex system. We're dealing with a very, very
	12	large system which nobody actually can
	13	understand exactly the complexity and how the
	14	complexity interacts.
10:25:01	15	I want to give another example because
	16	I talk about the complexity of the system. And
	17	by "system" I don't mean the train system, I
	18	mean a system as a component of parts, as a
	19	group of parts together that interact together.
10:25:14	20	So the example I always like to give
	21	is complicated versus complex, and those are two
	22	words that we use. A major program is a complex
	23	system, and a program a small, a normal
	24	program is a complicated system. And the two
	25	analogy I give is a Swiss watch and a weather

	1	system. So a Swiss watch, with all the
	2	mechanisms inside the watch, is a complicated
	3	system, where you know all these thousand of
	4	wheels interact with each other but you know the
	5	outcome. You know that after all these
	6	thousands of wheels are turned the hand will
	7	move one second. So that's a complicated
	8	interaction. So you always know the outcome
	9	even though it's a very complicated structure.
10:26:04	10	In a complex system you do not
	11	understand the interaction. So the weather
	12	system is the perfect example. If you have a
	13	weather system forming in the Gulf of Mexico you
	14	kind of know what might happen and you forecast,
	15	but you never forecast exactly. And also you
	16	cannot forecast years in advance, you can
	17	forecast a week in advance. Because you don't
	18	really understand how the elements of that
	19	weather system interact with each other. And
	20	the same thing is with major programs.
10:26:33	21	So the construction element of the
	22	major program is just one entity of that system
	23	but that doesn't exist in isolation. That
	24	exists within the broader system, and in that
	25	system you have a political system, you have the

	1	funders, you have the lenders, you have
	2	stakeholders. And so, yes, theoretically
	3	speaking the contractor drives the machine that
	4	excavates the soil and so to that extent they
	5	have some level of control. But at the end of
	6	the day, and I use geotechnical risk because I
	7	think it's a good example, nobody actually knows
	8	what's underneath the ground. So again with
	9	optimism bias you can take the risk.
10:27:28	10	But the reality is, when you look at
	11	any civil project, you have a series of
	12	boreholes. So you drill boreholes every ten
	13	metres. So you know what the ground condition
	14	is here, you know what the ground condition is
	15	here, and you make an assumption what the ground
	16	condition is between the two. But that's an
	17	assumption, you have no degree of certainty. So
	18	you have experience, you have experts, you have
	19	mitigations, but the reality is nobody knows
	20	what the ground is between those two data
	21	points.
10:27:58	22	So who is best positioned to manage
	23	and mitigate an unknown risk in the context of a
	24	wider system? In the context that there are
	25	multiple stakeholders, and in the context that
1		

	1	the objective is to move people from A to B as
	2	fast as possible? And I think the Ottawa LRT
	3	project actually shows that. There was a
	4	feeling that the risk transferred to the private
	5	sector and the private sector was going to
	6	deliver that. And ultimately the private sector
	7	had the challenges, and contractually it's to
	8	determine whose fault it was. But the ultimate
	9	outcome, forget why, the ultimate outcome is
	10	that the ultimate user suffered. So who is best
	11	positioned to mitigate the impact to the
	12	ultimate user of the system? And not just the
	13	train system but the overall system?
10:29:05	14	And so I think, yes, again I think
	15	your question going back to your question,
	16	what control does the contractor have? Yes, the
	17	contractor can mitigate, the contractor can
	18	manage, the contractor can bring their
	19	expertise. But there are ultimate consequences
	20	the contractor will take on but can't really
	21	mitigate and manage when they actually appear.
	22	And I think you've seen that on the OLRT
	23	project.
10:29:40	24	KATE McGRANN: I think we'll take the
	25	morning break now. We'll come back at 10:40.

10:29:57	1	RECESSED AT 10:30 A.M
10:39:23	2	RESUMED AT 10:39 A.M
10:39:24	3	KATE McGRANN: Before the break we
	4	were talking about the geotechnical risk
	5	transfer and I have one more question about
	6	that. To the extent that you can, can you speak
	7	about how transfers like this are being
	8	approached in the market now as opposed to the
	9	approach taken back in the RFP?
10:39:39	10	RICCARDO COSENTINO: I can't speak to
	11	it because it's been a while since I bid
	12	something in Canada. Before it was the Trillium
	13	LRT and I think it was a similar risk
	14	allocation.
10:39:55	15	KATE McGRANN: Before I proceed I
	16	wanted to just check in with my colleague,
	17	Ms. Young, to see if she has any follow-up
	18	questions on anything we've discussed so far.
10:40:04	19	EMILY YOUNG: Sure. I had a question
	20	about one point that you mentioned about OLRTC
	21	and RTM. You said, Mr. Cosentino, that when you
	22	started the bidding process they didn't actually
	23	exist yet. I was wondering at what point in the
	24	process they were officially formed and whether
	25	that sort of made any difference to the

	1	interactions between the different parties as
	2	you were preparing the bid?
10:40:32	3	RICCARDO COSENTINO: So the first
	4	they're legally formed I believe at financial
	5	close, that's when the entities are
	6	incorporated. It doesn't really make a
	7	difference because the shareholders of OLRTC and
	8	RTM were all involved in the bid process, they
	9	were just not involved as part of an established
	10	legal entity.
10:41:12	11	KATE McGRANN: Starting now to focus
	12	on your work as a member of RTG's Board of
	13	Directors. For starters, can you just describe
	14	what the involvement of the Board is in the work
	15	through the construction and manufacturing phase
	16	and into operations?
10:41:19	17	RICCARDO COSENTINO: So basically it's
	18	a quarterly Board meeting. So we have a
	19	quarterly Board meeting throughout the project.
	20	The Board delegated authority to the RTG
	21	management. So there's a formal delegation of
	22	authority where we articulate what the CEO and
	23	the CFO can and cannot do, where they have to
	24	come back and seek approval from the Board. So
	25	there's certain things required for approval.
1		

10:41:50	1	Some of the things that come to mind
	2	is initiating disputes that will require Board
	3	approval, otherwise a lot of the things are
	4	delegated down to the management team and then
	5	we just get briefed on a quarterly basis.
10:42:12	6	Obviously we also focus on as a
	7	governance Board we focus on preserving our
	8	duty of care is to the shareholder of RTG. And
	9	obviously the and we're trying to safeguard
	10	and assess and mitigate the impact that the RTG
	11	obligation could be having to the RTG
	12	shareholder. So obviously the obligation of RTG
	13	have been dropped down to OLRTC and RTM, we rely
	14	on those subcontractors to live up to their
	15	obligations.
10:42:43	16	KATE McGRANN: And what, if any, level
	17	of information is flowing back up from the
	18	subcontractors on their meeting of obligations,
	19	any challenges they run into, things like that?
10:42:55	20	RICCARDO COSENTINO: There's obviously
10.12.55	21	progress reports. So let's take the vehicle
	22	since it's nice and easy. With the vehicle we
	22	
	23 24	knew we had a delivery schedule to begin with.
		So if everything goes according to plan we don't
	25	get briefed. We just start getting briefed when

	1	things are not following the expected path.
10:43:19	2	So I think with the vehicle I think
	3	there was a delay. And also because we have to
	4	manage the interaction with the lender, so the
	5	lender technical advisors is working for the
	6	lenders but we manage that interaction. So
	7	whenever the LTA and the technical advisor
	8	reports in to the lender there are issues, then
	9	RTG has to be a bit more involved because we
	10	need to manage the expectation of the lenders.
10:43:48	11	So with the vehicle I think there
	12	was there were some issues. I can't remember
	13	if it was a milestone but I do specifically
	14	remember that there was a remedial plan that we
	15	had to submit to the lenders because certain
	16	things were not met.
10:44:01	17	Also that started raising some flags
	18	so obviously then we started asking more
	19	questions, and we wanted a bit more detailed
	20	reports on the vehicle manufacturing throughout
	21	the project. We couldn't really control the
	22	outcomes because it's two levels down. So we
	23	passed down the obligation to OLRTC and then
	24	OLRTC passed down the supply contract to Alstom.
10:44:26	25	So what we can do to intervene is

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	1	limited, but I think we need to be aware and see
	2	whatever we can do to mitigate that. Again,
	3	these contracts are the penalty and rewards
	4	are self-contained. So everything is structured
	5	so that obligation, payments and penalties or
	6	remedies are all self-contained. So obviously
	7	if OLRTC doesn't deliver on its obligation we,
	8	RTG, get compensated for the losses, right?
10:45:05	9	So if you look at the dropdown
	10	contract, liquidated damages, obviously if a
	11	contract is late we have to pay lenders
	12	additional interest costs. Those interest costs
	13	are captured and articulated in the liquidated
	14	damages. So if the contractor is late RTG is
	15	protected, to a certain extent. That's why we
	16	don't interfere because it's a self-contained,
	17	lump sum turnkey project that we have dropped
	18	down.
10:45:38	19	KATE McGRANN: A phrase that I have
	20	heard used when talking about benefits to the
	21	public partner of an AFP or P3 project is there
	22	is "one throat to choke", one entity to go to
	23	when there are issues. And I take it that RTG
	24	would be that entity in this case. Are you
	25	managing the relationship with the City?

10:46:02	1	RICCARDO COSENTINO: That's correct.
	2	Theoretically speaking that's correct. I mean,
	3	RTG is that one throat to choke. The reality is
	4	that everything is dropped down to our
	5	subcontractors, and I think you need I'm not
	6	saying "I think", it's all factual.
10:46:24	7	The amount of resources available
	8	it's no recourse financing. You're talking
	9	about the exposure that RTG has, when you
	10	look specifically at RTG, or any special purpose
	11	vehicle in any project finance solution,
	12	remember that PPP is a project finance solution.
	13	A project finance solution is a form of
	14	financing called known as "no recourse
	15	financing". So ultimately the exposure that RTG
	16	has is the equity that has been invested into
	17	the project, and it's by design.
10:47:00	18	So I can't remember I should know
	19	because I'm a Board member. But take any
	20	project, not RTG, but let's say a special
	21	purpose vehicle invests \$100 million, that's
	22	always available as a recourse. The other
	23	recourse is drop down to the so, again
	24	lenders and I think it's important to go
	25	through I've tried to explain the project

	1	finance structure in because it might come in
	2	handy later.
10:47:32	3	So no recourse is basically there's no
	4	recourse to the prime companies of the equity
	5	sponsor. So the equity sponsor invests the
	6	equity which is used to raise the debt. There's
	7	a debt to equity ratio of 90/10, so 90 percent
	8	is debt, 10 percent is equity. Then obviously
	9	the lenders want to make sure that they're going
	10	to get repaid at the end of the project, and so
	11	they demand and by the way, the lenders are
	12	repaid not by the SPV, they're repaid by the
	13	client.
10:48:05	14	So if we take the short-term lenders,
	15	when the project reaches revenue service in this
	16	case the client takes out the short-term
	17	lenders. So the lenders want to make sure that
	18	the project reaches substantial completion, or
	19	revenue service. And in order to do that they
	20	have they want a guarantee. The special
	21	purpose vehicle cannot provide those guarantees
	22	because it's an empty shell. All they have is
	23	the \$100 million of equity that has been
	24	invested.
10:48:39	25	So then what the SPV does is they
L		

	1	acquire they get a gequirity package from the
		secure they get a security package from the
	2	contractor. And so that is used is pledged
	3	towards the lenders to make sure that if there
	4	are problems with the project there is both
	5	liquidity in the form of a letter of credit and
	6	overall access to corporate funds through the
	7	parental company guarantees of the contractor.
10:49:06	8	So the actual security doesn't come
	9	from the equity. So that neck to choke is
	10	limited, because ultimately who is responsible
	11	for the delivery and who has pledged most of the
	12	security is actually the contractor.
10:49:20	13	And also the ultimate client relies on
	14	the lenders to implement that. Right? Because
	15	it's the lenders that has advanced 90 percent of
	16	the funds. So there's an expectation that the
	17	lenders are going to oversee the project and
	18	make sure that the project progresses because
	19	there's an alignment of interest. The lenders
	20	want to get to revenue service because that's
	21	when the short-term lender, that's when they
	22	get paid. The long-term lenders want to get
	23	there because that's when they start getting
	24	paid principal. So there's an overall alignment
	25	of interest.

10:50:03	1	However, there's not a perfect
	2	alignment of interest between the City and the
	3	lenders. There are obviously the lenders
	4	is they focus on what it takes to get their
	5	money back. The City has to look after the user
	6	of the system, it has to look after the
	7	thousands of stakeholders that are involved in
	8	the project. This goes back to the complex
	9	system, right. For a lender a project finance
	10	is not a complex system, it's just I'm lending
	11	money against this contract, against this
	12	parameter, I want these things to happen so I
	13	can get my money back. And as along as those
	14	things happen that's all I care.
10:50:39	15	But the ultimate client has to have a
	16	broader perspective because the managing
	17	stakeholder, especially if it's a public entity
	18	rather than a private entity, there's different
	19	degree of complexity.
10:50:51	20	So that one neck to choke is that's
	21	why I say it's theoretical, because ultimately
	22	whenever you go to choke the SPV, the SPV drags
	23	along the contractor and says, Talk to them
	24	because it's your security package. All the SPV
	25	does if something goes wrong is they pull up the

	1	contractor because they have most of the
	2	financial pressure through the LC and PCG.
10:51:29	3	KATE McGRANN: Thinking about the role
	4	of the lenders for a second, you spoke about the
	5	fact that their interests are not perfectly
	6	aligned with the City. A ways into the
	7	construction phase the City executed a debt
	8	swap, is my understanding, and stepped into the
	9	shoes of RTGs lenders. Do you know what I'm
	10	referring to?
10:51:48	11	RICCARDO COSENTINO: Yes.
10:51:48	12	KATE McGRANN: Can you speak to
	13	reaction of the Board of RTG when that took
	14	place?
10:51:54	15	RICCARDO COSENTINO: And just for
	16	completeness, I was a Board member but I was
	17	also involved with the negotiation of the Stage
	18	2. Which I think the two things are linked even
	19	though they took over even though they took
	20	over the debt of Stage 1 that was within the
	21	context of the Stage 2 negotiation, I think it's
	22	important to frame it that way.
10:52:19	23	So, yeah, it was highly concerning.
	24	You know, you're now tinkering with an
	25	established structure in a way that hasn't been

	1	really done before, outside the mechanism
	2	envisioned in the contract.
10:52:36	3	So the contract, the Project Agreement
	4	between RTG and the City contemplated a removal
	5	of the lenders. And so there's a mechanism it's
	6	called "Termination for Convenience", you can
	7	terminate the lenders for convenience. There's
	8	an established mechanism. But the City decided
	9	not to use the provision in the Project
	10	Agreement, they went a completely different
	11	route. Which they didn't really take out the
	12	lenders, the lenders are still existing. They
	13	just assumed the loan.
10:52:57	14	So typically I think we would have
	15	been less concerned if the City had just
	16	exercised its rights under the Project
	17	Agreement, because that's articulated. That's
	18	what we signed up to when we signed the Project
	19	Agreement. We knew, okay, if the City decides
	20	to take out the lender that's how they're going
	21	to do it, but they didn't do it that way. They
	22	assumed the Credit Agreement and they kept the
	23	lenders in place, and they're paying the lenders
	24	directly themselves.
10:53:47	25	So that that created an uneasiness

	1	because now you have the City as the lender. So
	2	now you still have a project finance structure
	3	but with different entities. I think what we
	4	always contemplated when we bid the project was
	5	that if the lenders are taken out you no longer
	6	have a project finance structure. Because the
	7	lenders would have been taken out, they would
	8	have been made whole and now you have a
	9	different scenario. So they kind of skirted
	10	around the agreement and created their own
	11	process to take out the lenders.
10:54:30	12	And again, you're tinkering with a
	13	complex system. Going back, you have a complex
	14	system and you're now you have now acted on a
	15	particular component of a system that is already
	16	difficult to understand how the system
	17	interacts. And when I say "system" it's the
	18	broader system. It's very difficult to know how
	19	all the components of the system interact with
	20	each other, and now you're tinkering with a
	21	critical component of the system, which has
	22	never been done before. So you don't even have
	23	a precedent to say, Okay, another jurisdiction
	24	tinkered with the component and that happened.
	25	Here there wasn't even that. It was a

	1	completely unprecedented move.
10:55:12	2	And again, one might argue that the
	3	interest of the lenders are aligned with the
	4	interest of the City, but that's not correct.
	5	And I can give an example of that. I
	6	specifically remember towards the end of Stage 1
	7	the construction contractor, RTG, has to certify
	8	to the lenders that the project will be
	9	completed before the lenders long stop date, and
	10	that's a condition precedent to draw. And I
	11	specifically remember that we couldn't certify
	12	that because at that point we knew that we would
	13	be past the lenders' long stop date, not the
	14	long stop date of the contract but the lenders.
10:55:53	15	And so I remember specifically talking
	16	to the short-term lenders, would you waive that
	17	requirement of the certificate for meeting the
	18	long stop the lenders' long stop date? And
	19	the short-term lenders said, Yeah, we can talk
	20	about it. We are open to it. These are
	21	relationship banks. Even though it's no
	22	recourse finance these are the same banks that
	23	serve our corporate interests so we have really
	24	good relations. There's a lot of trust. They
	25	know these corporations are not going to walk

	1	away from the project, which is the main concern
	2	with not meeting the lenders' long stop date.
10:56:26	3	And but the feedback that we were
	4	getting, I was getting in this informal
	5	discussion I had with the short-term lenders, it
	б	was like, we might be able to consider it but
	7	the City, as a long-term lender, is not
	8	interested. And that is absurd. Because when
	9	we actually look at how the funding flows in a
	10	project finance like Ottawa, the money of the
	11	long-term lenders is the first money that goes
	12	into the project. That's actually raised the
	13	day of financial close.
10:56:59	14	So the long term lender injected money
	15	up front. So when you're drawing money at the
	16	end of the project you're actually drawing money
	17	from the short-term lenders. So if there's
	18	anybody that has a concern about advancing funds
	19	in a scenario where the lenders' long stop date
	20	might not be met, should be the short-term
	21	lenders. The long-term lenders' money is
	22	already into the project so why would they
	23	object?
10:57:20	24	And, you know, and that's one example
	25	where the relationship became even more

	1	imbalanced, where there was almost like a
	2	capricious act in order to exert more pressure
	3	on to RTG and OLRTC. It was, you know, you want
	4	more money? You need to give me something in
	5	return.
10:57:45	6	KATE McGRANN: So you talked about the
	7	fact that when this was done you're tinkering
	8	with a complex system and the outcome was
	9	unknown. There's no precedent to look to and it
	10	hadn't been done before, right?
10:57:59	11	RICCARDO COSENTINO: Correct. To my
	12	knowledge.
10:58:00	13	KATE McGRANN: You've given us one
	14	example of an implication that came to life and
	15	was actually realized. So in the example that
	16	you gave was it the case that the City refused
	17	to consent to any amendment to the long stop
	18	date or to waive that requirement?
10:58:20	19	RICCARDO COSENTINO: Again, this was a
	20	discussion I was having with a representative of
	21	the short-term lender club. I mean, the reality
	22	is we never got any more draws. So I don't know
	23	what the discussion between the lenders ended up
	24	being. I wasn't in the room with the short-term
	25	lenders and the City, or the long-term lender.
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	1	But the outcome was that we never actually got
	2	any more draws. Once we couldn't meet the
	3	lenders' long stop date we couldn't draw any
	4	more.
10:58:50	5	KATE McGRANN: What other
	6	implications, if any, have realized from the
	7	City stepping in to the shoes of the lenders?
10:58:58	8	RICCARDO COSENTINO: I think
	9	anecdotally you have a structure that is set up
	10	from the beginning and you have this tension
	11	between all of the parties, and each party
	12	brings a different set of interest. And you
	13	have lenders, City, ProjectCo, and that triangle
	14	is balanced. You have now kind of removed one
	15	of those parties. And, again I think it's only
	16	anecdotal because and I don't know if the
	17	relation with the City would have precipitated.
	18	I just don't know what would have happened to
	19	the project through the challenges that we had
	20	as a group. If the long-term lenders had been
	21	there would it have been a different type of
	22	outcome? We will never know.
11:00:03	23	What we do know is that the structure
	24	was designed to have three parties, based on
	25	years' of experience, hundreds of precedents
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	1	where everybody where there are established
	2	precedents that having the three parties is
	3	beneficial. Well, now what we'll never know is
	4	if removal of that party did that make things
	5	worse? We know that for other projects it was
	6	always envisioned to be the right structure. We
	7	just won't know what would have been if the
	8	long-term lenders would have been there as
	9	envisioned.
11:00:39	10	Would that have helped the outcomes?
	11	Would that have helped smoothing the relation
	12	with the City? Would that have helped in having
	13	less of the adversarial having a third party
	14	that could mediate between us and the City?
	15	Because they bring a different perspective. As
	16	I said, their interests are aligned with the
	17	City but they're not perfectly aligned with the
	18	City. So you just have another party that can
	19	see both perspectives because they're in the
	20	middle. They're not perfectly aligned with us,
	21	they're not perfectly aligned with the City.
	22	Again, it's checks and balances.
11:01:15	23	KATE McGRANN: And I'm thinking about
	24	your analogy here of a triangle, the lenders the
	25	City, the ProjectCo, and you've spoken about the

	1	fact that there was the option in the Project
	2	Agreement of terminating for convenience. So
	3	how would that approach, which removes one side
	4	of the triangle, have different implications to
	5	the project than the approach that was taking
	6	with the City stepping in to the shoes of the
	7	lender, in your view?
11:01:43	8	RICCARDO COSENTINO: Yeah. So in my
	9	view again, I think contractually you can see
	10	how if you do it that way you so RTG has a
	11	lending agreement with the long-term lenders.
	12	By doing it as the contract said that agreement
	13	disappears.
11:02:01	14	So it's now a relation and there
	15	are obviously mechanisms to protect all of the
	16	parties under the project, which I don't recall
	17	because I never really reviewed it. But all I
	18	know it's a makewhole provision, that's why it
	19	makes it onerous for the City to do it, because
	20	it's a makewhole provision, but that's all
	21	articulated. It's been drafted, discussed,
	22	reviewed and then becomes a two-party agreement,
	23	by design.
11:02:30	24	And now by doing it the way the City
	25	did it you still have a three-party agreement

	1	but now one of the parties has been changed
	2	without the consent, or without we couldn't
	3	do anything or say anything, right?
11:02:46	4	And we can get into that, if needed,
	5	but we we kind of had to accept the situation
	6	as it was. We didn't get a say.
11:02:59	7	KATE McGRANN: Can you walk me
	8	through, from what you were able to see in your
	9	involvement, how this all came about?
11:03:06	10	RICCARDO COSENTINO: My recollection
	11	is that it comes from the negotiation of the
	12	Stage 2 extension. I think there was an intense
	13	negotiation where part of the negotiation was to
	14	keep the long-term lenders in a no better/no
	15	worse position. The project was structured just
	16	for Stage 1, and any changes to the scope, to
	17	the agreement required lender's consent. And
	18	obviously lenders' want to be kept in a no
	19	better/no worse position.
11:03:48	20	So what tends to happen, as you're
	21	adding operation as you're adding maintenance
	22	scope to the project, once the phase two has
	23	been built, now there's the operational
	24	leverage of the project changes as you're adding
	25	more O&M revenues. And, therefore, the lenders

	1	need to rebalance the operating leverage. And
	2	the way you balance the operating leverage is
	3	you add more equity.
11:04:20	4	So Stage 2 negotiation would have
	5	envisioned a lenders' consent and additional
	б	injection of equity in order to keep the lenders
	7	in a no better/no worse position.
11:04:33	8	I don't think that was palatable to
	9	the City. I think the prospect of a lenders'
	10	consent fee, plus the prospect of adding more
	11	equity, was not very palatable. And so the City
	12	decided to take out the lenders so that the
	13	additional equity was not maintained.
11:04:54	14	And again, as I'm explaining this,
	15	that's the other example with the checks and
	16	balances, it's not just they didn't just
	17	remove the reason the long-term lenders have
	18	operating leverage requirements, which is
	19	related to the amount of revenue that comes in,
	20	is all to do with default scenarios.
11:05:16	21	So as you're adding more revenues to
	22	the project company, that flow down to RTM you
	23	need to add more equity. And again, that is all
	24	to rebalance the debt, that triangle. More
	25	scope means more equity, and that didn't happen.

11:05:41	1	So now you have a scenario where you
	2	have significantly more scope. You still have a
	3	project finance solution. You added more scope,
	4	you didn't add more equity. So it's not just
	5	anecdotal that that triangle is off balance,
	6	even the numbers tell you it's off balance.
11:06:08	7	KATE McGRANN: And how does that "off
	8	balance" affect RTG?
11:06:10	9	RICCARDO COSENTINO: The incentives
	10	are different. The incentives and rewards are
	11	off scale.
11:06:22	12	And this is a theoretical point but I
	13	think it's worth making it. Which is, RTG is an
	14	entity and it has a profit and loss account, we
	15	make revenues and we take risks, and those risks
	16	are compensated by a return. So now what
	17	happened at the RTG level, we've taken on more
	18	risk and we didn't get more rewards because we
	19	didn't put in more equity.
11:06:53	20	And the the reason the lenders want
	21	more equity is because, again, in case a default
	22	happens, in case things go wrong the lenders
	23	need to be able to take that money and take over
	24	the project, right?
11:07:10	25	So these contracts have been developed

	1	over the last thirty years, and they've taken
	2	the shape they've taken because of all the
	3	lessons learned that have been implemented from
	4	project-to-project over the last thirty years.
	5	So these structures didn't just happen.
11:07:30	6	And I think that was part of the
	7	problem during the bid phase, which was the
	8	client start tinkering with the structure that
	9	was established because they felt they were in
	10	control and could do it. But, again, without
	11	understanding the consequence of that tinkering
	12	because now you're dealing with something
	13	extremely complex, and you start moving certain
	14	things and you don't fully understand the
	15	unintended and intended consequences that you
	16	have when you tinker with something this
	17	complex.
11:08:08	18	KATE McGRANN: With respect to the
	19	concept that RTG is taking on more risk as a
	20	result of the scope change brought by Stage 2,
	21	have I got that right so far?
11:08:17	22	RICCARDO COSENTINO: Yeah. More
	23	scope, more risk therefore, yes.
11:08:24	24	KATE McGRANN: And was it the case
	25	that that risk was then accounted for, from

	1	RTG's perspective, in any agreements in entered
	2	into with respect to Stage 2? Like, isn't that
	3	how that would be dealt with in this situation?
11:08:34	4	RICCARDO COSENTINO: Yeah,
	5	theoretically, but we didn't. Like, we just got
	6	a variation for the additional scope. And as I
	7	said, because had the lenders stayed in the
	8	picture that would have been taken into account.
	9	Because the lenders would never have given
	10	consent this variation if certain things had not
	11	been put in place. So in order to remove that
	12	annoyance the City took out the lenders.
11:09:09	13	KATE McGRANN: So I guess the question
	14	then becomes, why did RTG agree to this?
11:09:14	15	RICCARDO COSENTINO: To be honest the
	16	Stage 2 negotiation was very tense. We had been
	17	threatened with termination for convenience if
	18	we couldn't come up with a solution. And so we
	19	felt do we want to get terminated or are we
	20	going to swallow this and carry on?
11:09:35	21	KATE McGRANN: So we took a bit of a
	22	detour there, but we had been talking about
	23	RTG's Board and its level of involvement, and
	24	its role in the project overall. You had
	25	explained that you're getting quarterly updates
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	1	at Board meetings. Are you receiving
	2	information in between the Board meetings about
	3	the progress of the project, any issues that are
	4	coming up? Anything like that?
11:10:00	5	RICCARDO COSENTINO: No. Not in the
	б	early years. I mean, it's business as usual.
	7	But towards the end, so let's say 2016, 2017,
	8	when things were not we would be getting a
	9	briefing and also we would have to provide more
	10	input as maybe litigation would start, or
	11	dispute resolution would start, we would have to
	12	sign off on that. So we would maybe get some
	13	briefing in between board meetings.
11:10:34	14	But certainly during the 2018, 2019,
	15	phase when things were at a critical stage we
	16	would be looped into the correspondence. So
	17	instead of getting briefings we would then just
	18	get the correspondence as it was happening so we
	19	would be abreast of everything that was
	20	happening.
11:10:59	21	KATE McGRANN: And as things are
	22	ramping up, as you've described it, and dispute
	23	resolution and processes are being engaged with,
	24	you're being looped into correspondence, does
	25	the nature of the Board's involvement change in

	1	response to any of that?
11:11:08	2	RICCARDO COSENTINO: Not
	3	significantly, no.
11:11:12	4	KATE McGRANN: And from what you could
	5	see, does RTG's involvement itself change as
	6	things are escalating?
11:11:25	7	RICCARDO COSENTINO: Yes, from the CEO
	8	perspective. Yeah, the CEO would get more and
	9	more involved because the interaction as a
	10	consequence as the interaction with the City
	11	increased then obviously RTG involvement would
	12	increase. And obviously RTG would rely on the
	13	subcontractors, so that co-ordination would be
	14	stepped up in order to meet the demands of the
	15	City in terms of progress update and issue
	16	management. So, yeah, I think the management
	17	team got more and more involved.
11:12:01	18	KATE McGRANN: And, as I understand
	19	it, the management team is turning to the Board
	20	for direction where it required to under the
	21	delegation of authority?
11:12:11	22	RICCARDO COSENTINO: Correct.
11:12:17	23	KATE McGRANN: I'm going to ask you
	24	some specific questions, but before I dig into
	25	them, as you know the Commission's mandate is to

	1	investigate the commercial and technical
	2	circumstances that led to the breakdowns and
	3	derailments. From where you're sitting as a
	4	Board member do you have a view of what aspects
	5	of either the commercial or technical
	6	circumstances, in this case, may have
	7	contributed to an environment in which the
	8	issues that we saw during revenue service
	9	occurred?
11:12:42	10	RICCARDO COSENTINO: So, I mean, I
	11	won't opine on the technical issues, because
	12	even though I read some of the reports it's not
	13	my I don't have the complete knowledge to
	14	opine on the technical issue. In terms of the
	15	environment I would like to talk about that.
11:13:02	16	And I think, again, I'm quoting
	17	Professor Flyvbjerg, which is not just him but
	18	his testimony and his research. When we see
	19	these things happening these are causes. What
	20	you're assessing is these are the causes of
	21	delays and overruns or accidents, right?
11:13:26	22	So geotechnical risk, inflation,
	23	geology, scope changes, complexity, those all
	24	contribute to the consequences such as
	25	derailment or a delay in service.
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11:13:46	1	However, I think we have to look at
	2	what are the root causes? And so these are not
	3	root causes. Nothing that has happened in the
	4	project from financial close to today is a root
	5	cause are root causes of the event. The root
	6	causes of the event, and this is not me, this is
	7	established research, is optimism bias and
	8	strategic misrepresentation that happens at the
	9	development phase of the project.
11:14:20	10	So if you think about it a project has
	11	to be approved. In order to be approved there's
	12	limited fiscal there are fiscal constraints
	13	in any administration. So there's a tendency,
	14	because of optimism bias, because of the
	15	prospect theory, that Kahneman and Tversky
	16	developed and proved, that project budgets are
	17	never correct, are never enough. And because
	18	if the true cost of a project had to be put
	19	forward that project would not be approved. So
	20	what happens is that optimism bias, and
	21	strategic misrepresentation to come up with
	22	budget that can be palatable to the politicians.
	23	And then what tends to happen is that you now
	24	end up with a project that doesn't have the
	25	right resources. Sometimes it's misunderstood

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	1	because the level of complexity is not
	2	understood because maybe there hasn't been
	3	enough training for the program manager to
	4	understand.
11:15:26	5	And I feel comfortable in talking
	б	about this because there is a precedent, not a
	7	precedent but there's an established practice in
	8	the United Kingdom where it's been there for
	9	over twenty years, where the Treasury Department
	10	applies an "optimism by uplift" to any project,
	11	mayor program that comes to their purview for
	12	approval.
11:15:49	13	So this concept of optimism bias and
	14	strategic misrepresentation in the development
	15	of the project budgets is so established and so
	16	understood that what they do is they add an
	17	optimism bias uplift and then they go for
	18	approval. So would the project still be
	19	approved if we removed the optimism bias from
	20	the estimate and really portrayed the true cost,
	21	would that project still go ahead? Because by
	22	having the right cost you have the right
	23	resources.
11:16:23	24	And so, you know, when we look at
	25	the all the decisions that are made on a

	1	project, I mean, they all have financial
	2	repercussions. So not having the right amount
	3	of resources to carry out the project will
	4	create these issues, will create these causes of
	5	delay. But the root cause is at the source.
	6	The root cause is that the project was never
	7	enabled to achieve its intended objective
	8	because it was never given the right amount of
	9	resources.
11:16:59	10	KATE McGRANN: The optimism bias
	11	uplift that you speak about, that's applied by
	12	the Treasury Department in the U.K., do you know
	13	at what point in the life cycle of the project
	14	it's applied? You said it's before it's
	15	approved?
11:17:12	16	RICCARDO COSENTINO: Yeah. It's
	17	basically before it goes to the Treasury
	18	Department for funding. So at the investment
	19	decision stage.
11:17:18	20	KATE McGRANN: Okay. And how is that
	21	approach different than calculating a
	22	contingency for the budget, for example?
11:17:30	23	RICCARDO COSENTINO: Good question. A
	24	contingency will still have an optimism bias.
	25	So, again, in the research what you have

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	1	optimism bias you have to take an outside
	2	view. So if you ask the same individual that is
	3	giving you the estimate to also calculate the
	4	contingency, that individual will still have the
	5	optimism bias. So you need to take an outside
	6	view.
11:17:54	7	And in order and again this is an
	8	established process. I mean Bent Flyvbjerg and
	9	his team have what they call "reference class
	10	forecasting". And Daniel Kahneman talks about
	11	reference class forecasting in his book,
	12	"Thinking Fast and Slow". Which basically you
	13	have to eradicate the optimism bias, and the
	14	only way to do it is by taking an outside view.
11:18:21	15	So the optimism bias uplift that's
	16	what it does, it creates an outside view. So
	17	you're no longer relying on the same individual
	18	that had the optimism, it's a set value done for
	19	research that is added, and that creates the
	20	outside view.
11:18:37	21	KATE McGRANN: Like a reality check on
	22	the budget basically?
11:18:40	23	RICCARDO COSENTINO: Yes. And it's
	24	the HM Treasury Green Book that has the it's
	25	a whole process for approval articulated in the

	1	HM Treasury Green Book.
11:18:54	2	KATE McGRANN: Looking specifically at
	3	some of the things that took place during the
	4	construction and manufacturing phase on Stage 1
	5	on Ottawa's LRT. I understand that there was
	6	some changes to the plans for manufacturing the
	7	vehicles, changes to the locations of the
	8	prototypes that were to be made, the number of
	9	prototypes that were to be made and the timing
	10	of the validation testing. Were those changes
	11	reported up to RTG's Board?
11:19:22	12	RICCARDO COSENTINO: After the fact,
	13	yeah. We were the last one to find out because
	14	clarly Alstom reports to OLRTC, OLRTC report to
	15	RTG. So we were made aware of them but when the
	16	decision was made.
11:19:39	17	KATE McGRANN: is that the kind of
	18	thing that RTG's Board would then be asking or
	19	sending questions back down to its
	20	subcontractors, OLRTC and onwards, How is this
	21	going to be managed? We would like a schedule
	22	update. Please provide assurance that this is
	23	all going to work out?
11:19:55	24	RICCARDO COSENTINO: That's correct,
	25	that's how it would happen. Also because we had

1 to report to the lenders so obviously the 2 lenders have a similar interest. 3 But I think it's important to remind 4 ourselves that ultimately, you know, the 5 obligation to deliver, the penalty or the 6 security package associated with failure to 7 deliver, it's all contained within the OLRTC. 11:20:19 8 So at a certain point we can ask the 9 question, we can try to understand and help them 10 mitigate, but they have incentive and rewards. 11 It's all self-contained. 11:20:31 12 So the Board at OLRTC said, Listen, I 13 know that I'm late. I know the consequences 14 that I'm going to suffer so don't micromanage 15 what I'm doing because I'm I know that I'm 16 going to have a problem and my problem is 17 actually bigger than yours because I suffer all 18 the financial consequences. 11:20:58 19 KATE McGRANN: And you've spoken to 20 this a little bit already but just to ask the 21 question clearly, what tools or options are 22 available to RTG to change the direction being 23 taken by OLRTC, or its subcontractors, if it 24 disagrees with the approach being taken? 11:21:25 25 ENCCAPPO COSENTING: It's limited		1	
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		23	taken by OLRTC, or its subcontractors, if it
		24	disagrees with the approach being taken?
	11:21:05	25	RICCARDO COSENTINO: It's limited.

	1	It's limited because, you know, the financial
	2	resources available to RTG are limited. I think
	3	it's limited to the equity that we've invested.
11:21:22	4	You can try and have a you can ask
	5	for the to the shareholders for more money,
	б	but ultimately it's a limited amount of
	7	resources.
11:21:34	8	So we lean heavily on and we expect
	9	the subcontractors are going to live up to their
	10	obligation. And we have put in place, through
	11	the lenders with the lenders we put together
	12	the financial penalties and incentives that are
	13	going to drive the behaviours. Beyond that
	14	there is limited things that can be done, unless
	15	more cash is injected, but that's always
	16	problematic, especially on a no recourse
	17	structure.
11:22:08	18	KATE McGRANN: And explain to me what
	19	you mean when you say, more cash injections are
	20	problematic on a non-recourse structure?
11:22:17	21	RICCARDO COSENTINO: Well, the
	22	obligation of the special purpose vehicles are
	23	limited to the equity invested, right? There is
	24	no recourse upstream to that.
11:22:24	25	So if the there is no obligation by
L		1

	1	any party to continue funding, right? The
	2	obligation would come from the parental
	3	guarantees. So if you have a parental guarantee
	4	the guarantor wraps the obligation of the entity
	5	that is performing the obligation. There is no
	6	guarantee for the equity provider, that's a
	7	self-contained box. And then once that equity
	8	is expired the entity either goes bankrupt or
	9	the shareholders decide to put more money in,
	10	but there's no obligation to put more money in.
11:23:02	11	KATE McGRANN: In this case the
	12	shareholders did opt to put more money in, am I
	13	right?
11:23:07	14	RICCARDO COSENTINO: No. No, the
	15	OLRTC OLRTC so the way that cash injection
	16	worked it was through the obligation so
	17	OLRTC, through their parent company, provided
	18	more cash, but not RTG.
11:23:26	19	I mean, the parent company, the
	20	shareholder, that's where it get's a little
	21	confusing, but technically speaking, legally
	22	speaking the money came from the guarantor of
	23	OLRTC.
11:23:40	24	KATE McGRANN: So the pressure that
	25	the lenders would apply to RTG is effectively

	1	flowed down to the subcontractors as well, so
	2	you're having the conversations but the payment
	3	stops at a level below RTG?
11:23:56	4	RICCARDO COSENTINO: Correct.
11:23:56	5	KATE McGRANN: At any point during the
	б	project did the Board of RTG form concerns about
	7	the approach taken to a systems integration on
	8	this project?
11:24:19	9	RICCARDO COSENTINO: No. To be fair,
	10	I don't know that we had that level of details
	11	and understanding.
11:24:21	12	KATE McGRANN: And would you have
	13	expected to have that kind of insight if there
	14	were system integration issues?
11:24:28	15	RICCARDO COSENTINO: No, because we
	16	rely on the contractor, OLRTC, to manage all
	17	those. They are the expert. They are they
	18	are the expert and they have the resources to
	19	manage that.
11:24:41	20	RTG is a team of I think a CEO, a CFO,
	21	a technical director, a couple of site
	22	inspectors and an accountant. Six, seven
	23	people, that's RTG, right? While OLRTC is
	24	hundreds of people with hundreds of
	25	subcontractors. And so we wouldn't have the
1		

	1	means to opine on something that complex.
11:25:05	2	KATE McGRANN: Any requirement to deal
	3	with concerns about systems integration raised
	4	by the creditors, for example?
11:25:13	5	RICCARDO COSENTINO: Again, the
	6	creditors are focused on, we need to get to
	7	revenue service, substantial completion and then
	8	revenue service because that's when the
	9	short-term lenders get paid out. And even the
	10	lenders are fairly protected, right? Because up
	11	to the long stop date there are liquidated
	12	damages secured by a letter of credit from the
	13	contractor.
11:25:39	14	So at a certain point the lenders know
	15	that no matter what happens, even if the revenue
	16	service date is missed, they're still going to
	17	get their interest charges covered. And so does
	18	RTG, right? Our equity returns are, in case of
	19	a delay, are paid by the contractor. So
	20	financially both the lenders and RTG are
	21	protected in case of a delay.
11:26:09	22	KATE McGRANN: Does RTG become more at
	23	risk in the event of a potential default or
	24	termination?
11:26:15	25	RICCARDO COSENTINO: That's correct.

11:26:16	1	KATE McGRANN: That's when it
	2	becomes
11:26:18	3	RICCARDO COSENTINO: Yes.
11:26:19	4	KATE McGRANN: So has RTG been engaged
	5	at that level? And if so how has that changed
	6	the reaction or the steps taken?
11:26:33	7	RICCARDO COSENTINO: So obviously
	8	there's a notice of default, which we're
	9	disputing. And I think yeah again, within
	10	the means that we have available we're trying to
	11	be more informed and work collaborative with the
	12	City and the contractor to try and resolve the
	13	issues.
11:26:50	14	That's even a disputed event of
	15	default, like we have now, it focuses our
	16	attention as a Board, and as a shareholder.
	17	But, again it's limited you know, it's
	18	limited mechanism that we can implement.
	19	Ultimately the obligation again, there's a
	20	security the same way we have a security
	21	package from the contractor during the
	22	construction phase, we have a security package
	23	from the maintenance contractor during the
	24	maintenance phase, right?
11:27:26	25	I mean, these structures are designed

	1	so that if there's a default, the project
	2	company, so RTG, can step into the maintenance
	3	contractor's shoes and perform the obligation,
	4	using the letter of credit and the parental
	5	guarantee as sources of funds. Because
	6	obviously RTG has limited RTG, and the
	7	shareholder, SPVS, has limited resources.
	8	There's the equity, which by the way has been
	9	used to as a source of funds during the
	10	project, so the equity is already injected. So
	11	the amount of cash available is limited. So
	12	that's why you have a security package from the
	13	maintainer. So RTG has the ability to step into
	14	that. If RTG doesn't step into that then the
	15	lenders step in.
11:28:29	16	KATE McGRANN: Do you have a view of
	17	the effectiveness of the milestone payments as
	18	incentives to complete this project on time, on
	19	budget, anything like that?
11:28:36	20	RICCARDO COSENTINO: Yes. I do have a
	21	view. The milestone payments were designed to
	22	reduce the cost of capital. Because if you have
	23	milestone payments that means there is cash
	24	coming in and there's less need to borrow that
	25	cash. And obviously the City can borrow at a

	1	lower rate than the private sector.
11:29:03	2	So by having those injections during
	3	the project you're reducing the overall cost of
	4	the project. And so that was that is the
	5	intent of those milestones.
11:29:16	6	KATE McGRANN: In terms of delays on
	7	this project and how they may have impacted the
	8	outcome, from where you're sitting as a member
	9	of RTG's Board, do you have a view of which
	10	of how those affected the outcome?
11:29:30	11	RICCARDO COSENTINO: I mean, the
	12	obviously the sinkhole, the sinkhole was
	13	something that happened that was probably
	14	unexpected. It was unexpected so that
	15	contributed to the delay. That contributed
	16	to again, this is from a briefing that I was
	17	getting as a Board member. And from my
	18	understanding being a civil engineer, and having
	19	worked on construction projects early in my
	20	career, carrying out work out of sequence
	21	created further delays, soured the environment,
	22	further, made things more complicated.
11:30:12	23	So, yeah, unexpected events certainly
	24	didn't help. There were other there were
	25	other factors, maybe not to the magnitude of a

	1	sinkhole, that contributed to small delays.
	2	But, again, it's death by a thousand cuts. I
	3	think the sinkhole is just what precipitated
	4	everything, but there were other things. You
	5	know, there are claims still ongoing about the
	6	supply of the Ash wood and the fare gate. And
	7	those are not unexpected in a project of this
	8	size and complexity, but the sinkhole really
	9	affected everything.
11:30:55	10	KATE McGRANN: As you're as the
	11	project moved through the testing and
	12	commissioning phase towards substantial
	13	completion, what kind of reports was the RTG
	14	Board getting about the readiness of the system
	15	for trial running and revenue service
	16	availability?
11:31:16	17	RICCARDO COSENTINO: I don't recall in
	18	specific, but most likely at that stage we were
	19	still getting just quarterly reports. I think
	20	we probably did see some optimism in some of the
	21	reports that we were getting. But again, we
	22	would just take them at face value, right? If
	23	the expert that is the contractor, OLRTC, says
	24	that this is what they're going to do, they've
	25	done their due diligence, they've done more due

	1	diligence than we can ever do as RTG with the
	2	limited resources as a Board.
11:31:50	3	And as I said, we relied heavily on
	4	the contracted incentives and penalties within
	5	the OLRTC contract to get comfortable that they
	6	would do whatever it took to get to revenue
	7	service in a safe manner.
11:32:12	8	And if they said that was the plan, we
	9	would probably not challenge it.
11:32:21	10	KATE McGRANN: To your knowledge, did
	11	the level of engagement of RTG or its Board
	12	change after the first substantial completion
	13	submission was rejected?
11:32:31	14	RICCARDO COSENTINO: So the level of
	15	engagement changes insofar that we had to
	16	provide more information to the lenders and
	17	to so by doing that obviously to ourselves as
	18	well. But it was more a matter of understanding
	19	what the plan was.
11:32:51	20	Again, this is where they when I
	21	said the alignment of the lenders the
	22	interest of alignment between the lenders and
	23	the City are generally in the same direction,
	24	but not perfect.
11:32:59	25	So the lenders are looking for
1		

	1	completion by the lenders' long stop date. So
	2	the lenders are not and so does RTG by the
	3	way. So we're not concerned about revenue
	4	service. We are concerned about the lenders'
	5	long stop date or the contract long stop date.
11:33:15	6	So there's for us it was more,
	7	Okay, I know you're not going to meet revenue
	8	service but are you going to be able to meet
	9	revenue service before the lenders' long stop
	10	date? And that's what we focused on. Which
	11	obviously it's a different level of scrutiny
	12	than the City, whose interest is to reach
	13	revenue service. So obviously we would react to
	14	the City's thirst for knowledge and data to
	15	obviously mitigate manage that relation. But
	16	for us it was more like, can we meet the revenue
	17	service date by the lenders' long stop date?
11:33:57	18	KATE McGRANN: And how did that play
	19	out?
11:34:11	20	RICCARDO COSENTINO: Well, if I
	21	remember correctly, I think we missed that. And
	22	I think that's where our role is to manage the
	23	lenders and talk to the lenders. And that's why
	24	we started having more direct interaction with
	25	the lenders to make sure that they had an

	1	understanding.
11:34:21	2	You know, a lender's long stop date is
	3	there to protect them so that they can step in
	4	and remedy. But ultimately they don't want to
	5	do it, right? I mean, they're bankers and
	6	not they would have to go out and hire
	7	another contractor, right?
11:34:36	8	So if we can't demonstrate to them
	9	that the contractor is not going to abandon the
	10	project, that the contractor is still going to
	11	pay liquidated damages so they get their
	12	interest charges. The lenders have a tendency
	13	to say, Okay, I see you have this under control.
	14	I'm nervous but you're still paying my interest.
	15	I know you're a reputable contractor. I know
	16	you're going to finish the job. I will give you
	17	latitude.
11:35:03	18	And that's what RTG did quite well, is
	19	keeping the lenders informed and abreast so that
	20	they became a partner in a very difficult
	21	situation and they were not threatening to
	22	terminate or step in. That threat was never
	23	made and there was an understanding that
	24	because they could see an end, even though it
	25	was not by the lenders' long stop date, they

	1	could see that significant progress was being
	2	made every month.
11:35:32	3	KATE McGRANN: And when you talk about
	4	the management or the interaction with the
	5	lenders that RTG is having, at this point in
	6	time it also includes the City, is that right?
11:35:42	7	RICCARDO COSENTINO: Yes. At a
	8	certain point the City assumed the long term
	9	bonding indenture. So I specifically remember
	10	one meeting at the MSF where it was lenders and
	11	the City showed up, I think it was shortly after
	12	assuming the long term loan.
11:36:00	13	KATE McGRANN: And were they exerting
	14	any pressure that was out of step with what the
	15	other lenders were doing as the long stop date
	16	is missed and the project continues to progress?
11:36:11	17	RICCARDO COSENTINO: Yeah. Look, I
	18	specifically remember that lender's meeting at
	19	the maintenance facility, which I attended. I
	20	didn't attend many but I attended that one
	21	because obviously things were difficult.
11:36:29	22	And, yeah, the short-term lenders had
	23	a constructive approach and they wanted to
	24	understand what was happening. Would we get
	25	there? But the City, as a long term lender,

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	1	behaved as the City.
11:36:41	2	So, again, if they were a true lender
	3	they would have had the same stance. So they
	4	shouldn't have cared about the revenue service
	5	because as a long-term lender you care about the
	6	long stop date. But they came to the meeting
	7	with the lenders and behaved as the client,
	8	which made everything quite difficult. Because
	9	obviously we have established relation with the
	10	lenders, they are our corporate bankers, they
	11	support us on many other projects and they want
	12	would be constructive and helpful. And they
	13	felt that the City's behaviour was not
	14	constructive or helpful as a lender. It was
	15	tense, it was a very intense meeting.
11:37:25	16	KATE McGRANN: What was the outcome of
	17	that meeting?
11:37:30	18	RICCARDO COSENTINO: It was more of a
	19	site tour, it was more of a discussion. It was
	20	just for the short-term lenders to get an
	21	understanding where are we. They are concerned.
	22	Is the contractor going to walk away? Do I have
	23	to step in? They don't want to do it but they
	24	will do it. So they just want to get their
	25	reassurances that they can still rely on the

	1	contractor to finish the project. So I think
	2	the short-term lender got that comfort and they
	3	never the proof is they never stepped, they
	4	never exercised their step-in rights.
11:38:04	5	KATE McGRANN: Before I move on,
	б	Emily, do you have any follow-up questions you
	7	want to ask?
11:38:14	8	EMILY YOUNG: I don't think so, thank
	9	you.
11:38:17	10	KATE McGRANN: Once the project moves
	11	into the trial running phase what level of
	12	information and how frequently is the RTG Board
	13	being updated on the progress through trial
	14	running?
11:38:26	15	RICCARDO COSENTINO: I believe at this
	16	point we're getting we're basically looped
	17	into the correspondence. So for many years we
	18	tried to keep the separation between the legal
	19	entities in order to maintain legal rights and
	20	privacy and privilege.
11:38:47	21	I think at this point, during trial
	22	running, I think we the project director or
	23	the CEO's of RTG and the project director, they
	24	created one distribution list so that we're
	25	getting the same briefing that the OLRTC Board

	1	gets and the RTM Board gets.
11:39:06	2	So I don't recall specifically what I
	3	was getting but I was getting significantly more
	4	information during that period on how things
	5	were going.
11:39:16	6	I wouldn't be getting you know, I
	7	wouldn't be getting everything that the CEO
	8	would be getting, but I would be getting a high
	9	level summary throughout maybe even on a
	10	daily basis as they were going through, or maybe
	11	every couple of days we would say, okay
	12	especially went things wrong, we missed the
	13	date, and we would be notified.
11:39:39	14	I think that's the general approach.
	15	If things go according to plan we don't need to
	16	know. We need to be briefed when things don't
	17	go according to plan.
11:39:49	18	KATE McGRANN: Were you aware that
	19	there were changes to the requirements of trial
	20	running that were put into effect during the
	21	trial running period?
11:39:56	22	RICCARDO COSENTINO: Yes.
11:39:57	23	KATE McGRANN: And what kind of
	24	information was provided to the Board about what
	25	was happening there?

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11:40:03	1	RICCARDO COSENTINO: I don't recall
	2	the specific. I do recall being notified that
	3	they were going to make changes because it was
	4	getting difficult to achieve some of the
	5	metrics, and again I'm using these words
	6	loosely.
11:40:19	7	So we were just notified that, you
	8	know, we're going to try and work with the City
	9	to find a way to get there in a safe way. Our
	10	concern was always safety. Whatever you do it
	11	has to be jointly agreed by all parties. And
	12	this was the instruction to the CEO, needs to be
	13	agreement by all the parties and we still need
	14	to follow all the processes. But before the
	15	parties feel that changing some of the
	16	parameters is the right thing to do, we trust
	17	them.
11:41:00	18	KATE McGRANN: Did you have an
	19	understanding that let me ask a couple of
	20	questions actually. The Board's direction to
	21	the CEO is that it has to be safe and agreed to
	22	by the parties?
11:41:09	23	RICCARDO COSENTINO: Correct.
11:41:10	24	KATE McGRANN: Any other directions
	25	given by the Board to the CEO about changes to

	1	the trial running requirements?
11:41:19	2	RICCARDO COSENTINO: No. I don't
	3	think it was direct direction to the CEO. I
	4	think the way we have managed and led the
	5	project, I think that was implied. I think
	6	everything the way we always gave this
	7	management team latitude, there was a delegation
	8	of authority.
11:41:37	9	But given the critical point of the
	10	project, given the critical time and the
	11	complexity and the parties involved, we might
	12	have given or hinted to the CEO that there is a
	13	little more latitude. And that's why we said,
	14	As long as all the parties are in agreement, as
	15	long as the client is in agreement and there's
	16	general sign-off and it's safe, and the team
	17	feels its safe, we'll support you.
11:42:04	18	Because we didn't want to be an
	19	impediment to the process, even though we are
	20	the Board of the entity that is contractually
	21	linked to the client. We also were keenly aware
	22	that OLRTC was doing all the work and OLRTC was,
	23	you know, moving things forward. So we didn't
	24	want to be impediment to achieve like I said,
	25	we were a small team, far removed and so we

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	1	placed a high degree of trust onto the team.
11:42:39	2	KATE McGRANN: And in terms of the
	3	motivation to give more latitude on this, what
	4	would that have been?
11:42:48	5	RICCARDO COSENTINO: We knew that
	6	there was a lot of the parties involved,
	7	especially OLRTC and the City wanted to reach
	8	revenue service availability. It's not a
	9	secret, you know, revenue service availability
	10	for the OLRTC means there's a payment. So
	11	that's when the liquidated damages stop because
	12	the short-term lenders are taken out. And for
	13	the City they can do what they have to do to get
	14	to service. So we knew that the City wanted to
	15	get that too.
11:43:32	16	KATE McGRANN: So there was an
	17	understanding that the requirements there was
	18	trouble meeting the requirements as they were
	19	set at the outset of the project?
11:43:43	20	RICCARDO COSENTINO: Yes. Yes, we
	21	were aware. We were aware there were
	22	challenges, we were aware as I said, when we
	23	would miss the day during trial running they
	24	would be notified.
11:43:55	25	Again, it was more notification

	1	because what am I going to do as a Board member?
	2	I have to put the trust and my leadership
	3	there's enough checks and balances in the system
	4	that I you know, let me know, but I'm not
	5	going to intervene. I'm not a system engineer.
	6	I've never done trial running. I've never put a
	7	system into service.
11:44:21	8	So what I have to make sure is that
	9	everything is safe.
11:44:24	10	I mean, we were you know, it was
	11	a it's a fine balance right. I think we also
	12	want RTM to be involved. Because ultimately,
	13	from the RTG standpoint, safety first, but
	14	safety aside, you know, we were keenly aware
	15	that whatever happened if anything was you
	16	know, any compromises that were made during that
	17	phase would have been absorbed by RTM.
11:44:58	18	Again, we, as RTG drop down. Our main
	19	concern is, is RTM in the room? Is RTM aware of
	20	what's happening? Because ultimately whatever
	21	decision is made now it will have repercussion
	22	for RTM. But if RTM is in the room and is aware
	23	of what is happening then I think we're
	24	comfortable. And I think they were in the room.
11:45:21	25	KATE McGRANN: So on that front,
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	1	recognizing that whatever compromises are made
	2	are going to be caught by RTM, the repercussions
	3	will land on them, is that right?
11:45:32	4	RICCARDO COSENTINO: Yes. It's a
	5	blanket, right. If you make compromises, if you
	6	move one side something is going to have to
	7	give.
11:45:47	8	KATE McGRANN: So what information was
	9	being received or sought by the RTG Board about
	10	RTM's ability to absorb the implications of
	11	those compromises.
11:46:03	12	RICCARDO COSENTINO: I don't recall.
	13	Again, it's a fast-paced environment. So the
	14	question we were asking is, is RTM in the room?
	15	And as long as they're there they're the best
	16	one to police what's happening.
11:46:16	17	KATE McGRANN: So if RTM is agreeing
	18	to what's happening the Board is effectively
	19	trusting their judgment and not looking behind
	20	it?
11:46:19	21	RICCARDO COSENTINO: Yeah. Because
	22	they have the obligation, right? The
	23	contractual obligations are with them, we have
	24	flowed them down. So I think contractually,
	25	like if we put a contractual hat on, I want to

	1	make sure that RTM doesn't come back and claim
	2	against RTG for not for not providing the
	3	system as we committed in the drop down
	4	contract. So having RTM in the room mitigated
	5	that risk.
11:46:51	б	KATE McGRANN: And in terms of other
	7	entities that RTG is responsible for interfacing
	8	with, I take it the short-term lenders don't
	9	really care one way or another what happens once
	10	you get into operations because they've been
	11	taken out, is that right?
11:47:05	12	RICCARDO COSENTINO: Yeah.
11:47:05	13	KATE McGRANN: So the party that
	14	you're really dealing with as owner, as lender,
	15	is the City?
11:47:12	16	RICCARDO COSENTINO: Yeah.
11:47:13	17	KATE McGRANN: What kind of
	18	interactions is RTG having with the City as the
	19	trial running period draws to a close and all
	20	these compromises are about to land on it as
	21	operator and RTM as maintainer?
11:47:26	22	RICCARDO COSENTINO: I mean, RTG,
	23	through our CEO, Peter Lauch, he was the point
	24	person in the relation with the City as an owner
	25	and as a lender. So Peter was basically
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	1	co-ordinating all of the interaction with the
	2	City. He was the point person and was the
	3	ultimate person responsible for interacting with
	4	the City. Which at that point was, you know,
	5	Manconi, Kanellakos, the mayor at times. So we
	6	delegated, the Board delegated the authority to
	7	Peter to make that happen.
11:48:13	8	KATE McGRANN: And what about the
	9	negotiation of the term sheet that was put in
	10	place as part of the revenue service
	11	availability achievement?
11:48:35	12	RICCARDO COSENTINO: So we delegated
	13	that to Peter and the management team and I
	14	can't remember. I have to if RTG signed
	15	that we either delegated authority to Peter
	16	to sign it or it might even have to be the Board
	17	signing it. Sometimes certain things get signed
	18	but again it's you know, the actual
	19	negotiation of the document would have fell on
	20	to the CEO.
11:48:45	21	KATE McGRANN: And did you form a view
	22	of what the implications of that term sheet
	23	would be for RTM?
11:48:54	24	RICCARDO COSENTINO: Yes. But
	25	ultimately I felt that my our obligation was

	1	dropped down to RTM. So ultimately if they were
	2	comfortable with that then I was going to be
	3	comfortable with it, because ultimately they
	4	were going to be the ones to live with it.
11:49:19	5	KATE McGRANN: But what was your view
	6	of what the implications of the term sheet would
	7	be for RTM?
11:49:20	8	RICCARDO COSENTINO: Well, you know,
	9	my expectation is it was going to be
	10	challenging. Everything had been done,
	11	everything had been squeezed. Since the
	12	sinkhole everything was accelerated. Not
	13	accelerated but, you know, how the sequencing
	14	works, there were challenges in meeting of some
	15	of the trial running requirements.
11:49:48	16	I think at a high level it never felt
	17	comfortable. I couldn't point I'm not an
	18	expert. I'm not in the details, but the broader
	19	picture was never a comfortable picture.
11:50:02	20	KATE McGRANN: And I'm looking at the
	21	amount of time we have left, sorry, to make the
	22	most of it.
11:50:07	23	Based on what you knew about the
	24	status of everything we've been discussing
	25	heading into revenue service, were any of the

	1	issues encountered by way of breakdowns, in
	2	advance of the derailments, a big surprise to
	3	the Board, as far as you know?
11:50:22	4	RICCARDO COSENTINO: Yeah. The
	5	derailments, yeah, they weren't catastrophic but
	б	it's a big event. So we didn't think yeah,
	7	it was a surprise.
11:50:37	8	KATE McGRANN: But leave the
	9	derailments aside for a second, we'll talk about
	10	those.
11:50:45	11	But the issues that appear before the
	12	derailments?
11:50:48	13	RICCARDO COSENTINO: Again, from a
	14	place of ignorance, not being a super technical
	15	expert but having a little bit of knowledge,
	16	it's not completely surprising, given what I
	17	know about the project and given what I know the
	18	processes have been leading up to the
	19	maintenance period. I mean, it's not surprising
	20	that we had issues.
11:51:10	21	KATE McGRANN: And then can you speak
	22	to what the Board's involvement was in terms of
	23	addressing the derailments?
11:51:18	24	RICCARDO COSENTINO: Again we tried to
	25	provide as much resources to the team. Again,

	1	you know, our expectation was that RTM would
	2	have the obligation to fix that.
11:51:33	3	Obviously there's some affiliation
	4	with these entities so we instructed the
	5	management team to be as supportive and
	6	collaborative as possible. Even though they are
	7	contractual relation we made sure that Peter and
	8	the other members of RTG were going to be as
	9	co-operative as possible and as supportive as
	10	possible to RTM to address the deficiencies and
	11	to work with Alstom.
11:52:08	12	KATE McGRANN: Can you speak to the
	13	nature of the relationship between RTG and the
	14	City, as you understood it from your position as
	15	a Board member, and how it may have changed?
11:52:19	16	RICCARDO COSENTINO: Yeah. I mean,
	17	again it's we talked about how the P3,
	18	structure works. We are the contracting entity.
	19	We are the interface between the City and the
	20	contractors.
11:52:40	21	In the early years, and to be honest
	22	even in the later years during the construction
	23	period, we tried to be the arbiter between the
	24	City and the contractor. Because the City has
	25	expectations, we have dropped down all the
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	1	expectations to the contractor, and we're trying
	2	to bridge that gap that could be in terms of
	3	expectation for both parties.
11:53:00	4	Even the claims, when the contractor
	5	has claims they're always submitted to the City
	6	under the equivalent project relief regime. So
	7	even though it might say it is an RTG claim, but
	8	when you look RTG is just forwarding the claim
	9	from the contractor to the City, under the
	10	understanding with the contractor that RTG will
	11	only pay when paid. So RTG doesn't actually
	12	have an obligation to compensate the contractor
	13	for a claim. So, you know, it is a bridging
	14	relation.
11:53:36	15	For all the years, speaking to Antonio
	16	first and then Peter Lauch after, they managed
	17	the best they could. And eventually the
	18	frustration started coming through about the
	19	fact that RTG was every time there was an
	20	issue RTG would just turn around to the
	21	subcontractors. And the City's expectation was,
	22	Well, you're the contracting entity. What are
	23	you doing about it? And it was, yeah, but we
	24	have dropped all this down.
11:54:02	25	And, by the way, they knew that

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<sup>2</sup> agreement at bid stage and even at fina <sup>3</sup> close, so the relationship was not unkn	ancial
<sup>3</sup> close, so the relationship was not unkr	nown.
4 It's very common in a P3. And there's	been
<sup>5</sup> hundreds of P3s done in Canada and thou	usands
6 worldwide.	
11:54:19 7 So that soured. And, you kno	ΟW,
8 there's frustration that sometimes it f	felt that
<sup>9</sup> the City had their hands tied behind th	neir back
10 in their relations with us or OLRTC. A	And that's
<sup>11</sup> what soured the relationship because th	ney felt
12 they just couldn't intervene. They we	ren't
<sup>13</sup> getting the intervention that they were	e seeking
14 from RTG. They weren't getting the int	tervention
<sup>15</sup> they were expecting from the lenders.	I think
16 I'm speculating because I was not at th	ne City,
<sup>17</sup> but I assume that they were expecting t	the
18 lenders to maybe exert more pressure, a	and that's
<sup>19</sup> why the reason they did that.	
11:55:17 20 Does that address the question	on?
11:55:19 21 KATE McGRANN: I think that t	that
<sup>22</sup> addresses the question.	
11:55:2223To the extent that you can an	nswer this
<sup>24</sup> question, did you have a view on whethe	er the
<sup>25</sup> term sheet that was signed in August of	£ 2019 set

	1	the system up for a successful launch?
11:55:43	2	RICCARDO COSENTINO: I would be
	3	speculating but I will speculate. I think there
	4	was optimism bias in that too. Could it have
	5	worked? Yes, but it didn't.
11:56:04	6	KATE McGRANN: Where was the optimism
	7	kind of landing in that? Where was the hope
	8	that this would work out and where did it fail?
11:56:12	9	RICCARDO COSENTINO: I think we went
	10	from 15 to 13 vehicles, right? And that 15 was
	11	there for years. So clearly somebody at some
	12	point sat down and did a bit of an analysis and
	13	realized that 15 vehicles is what was needed to
	14	be successful.
11:56:37	15	And further analysis was done to see
	16	how do we mitigate we need to get to revenue
	17	service. What can we do in a safe manner and
	18	what can give in order to get there? And
	19	obviously with optimism bias you try and figure
	20	out a workable solution that doesn't and you
	21	take risks.
11:56:54	22	Clearly it's just math. You go from
	23	15 to 13 you automatically increase the risk.
	24	Is it now becoming an unmanageable risk? It's
	25	debatable. It's within complexity here.

11:57:10	1	With all of these decisions once			
	2	you start deviating from an initial plan you're			
	3	making compromises. So you take and that's			
	4	why I had the discussion earlier about you're			
	5	dealing with a complex system. There are many			
	6	moving parts. So now you have a need to put the			
	7	system into service, and you got those			
	8	pressures. So who is best positioned to make			
	9	those decisions? Who is best positioned to make			
	10	those trade-offs?			
11:57:44	11	And ultimately, I think even in this			
	12	scenario, I would conclude that the client is			
	13	always in the best position to make these			
	14	decisions because they have the holistic view,			
	15	right?			
11:57:58	16	However, now you are constrained by a			
	17	contract that was developed five years ago that			
	18	didn't really envision these situations. So the			
	19	P3 contract is really rigid. It's not really			
	20	well suited to deal with complexity, because in			
	21	a P3 contract you need to specify all the			
	22	events, you need to articulate all of the events			
	23	that are potentially going to happen so that			
	24	somebody can price it in a lump sum price, lump			
	25	sum, turn key price.			

11:58:28	1	And when these inevitably it's
	2	absurd to think that when 8 out of 10 projects
	3	are late that this project is not going to
	4	encounter the same issue. They might not be the
	5	same issue that another project encountered but
	6	there will be a set of issues.
11:58:46	7	So in order to deal with complexity
	8	you need to be able to adapt, you need to be
	9	able to implement. So you need to have the
	10	resources to do that. So that was that
	11	enough funding? It's not just funding for the
	12	contract when it's signed, but is there enough
	13	funding available to manage these unexpected
	14	events.
11:59:04	15	And obviously the City had articulated
	16	that in their mind everything had been passed to
	17	the private sector. So, no, we don't need
	18	additional funding because everything has been
	19	transferred, all the risk has been transferred
	20	and the private sector will deal with it.
11:59:19	21	At a certain point the private sector
	22	dealt with it but not the satisfaction of the
	23	City, but ultimately the City had passed that
	24	obligation on.
11:59:27	25	So for the private sector, for us, as

	1	long as we complete the project we have met our
	2	obligation, but that's when the political
	3	pressure comes in because the politicians don't
	4	want the completed project, they want the
	5	completed project at a specific date in time.
11:59:42	6	So is it really true that the private
	7	sector is better able to manage that situation?
	8	No. Because we don't control the politicians.
	9	We just have a contract that says, finish the
	10	project on a certain date and if you don't there
	11	will be liquidated damages. But we made a
	12	commercial trade-off between paying the
	13	liquidated damages and finishing late, which is
	14	within our right. But that creates a lot of
	15	tension in the City because the user wants the
	16	system.
12:00:09	17	So the City wanted to have the risk
	18	transfer but also the flexibility of directly
	19	managing the contract and telling and making
	20	sure that the project was finished when they
	21	wanted it to be finished, without additional
	22	cost. Because in their mind the risk had
	23	completely been transferred so there was no need
	24	to additional costs.
12:00:31	25	And, again, when you're dealing with a

1	complex project like this, you need to be ready
2	to deal with unforeseen consequences and you
3	need to be ready to manage that for a
4	collaborative approach.
5	KATE McGRANN: Emily, do you have any
6	follow-up questions on anything we have
7	discussed?
8	EMILY YOUNG: No.
9	KATE McGRANN: I've said this already,
10	but the Commission's been asked to investigate
11	the commercial and technical circumstances that
12	led to the breakdowns and derailments on Stage 1
13	of Ottawa's Light Rail Transit project. Are
14	there any topics or areas that we haven't
15	discussed this morning that you think the
16	Commission should be looking at as part of that
17	investigation?
18	RICCARDO COSENTINO: So to me is
19	yeah, I think it's as I mentioned, root causes.
20	It's important that there's an understanding of
21	what are the root causes? And are project
22	sponsors ready and capable of delivering major
23	programs of this complexity? And I think in my
24	analogy about the plane, you know, just because
25	you are able to pilot a propeller plane does
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

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	1	that make you ready to pilot a fighter jet?
12:01:56	2	And I think, you know, again, I have
	3	to draw parallel to the best practices in the
	4	United Kingdom where every program manager so
	5	if you are delivering a major program that
	6	receives HM Treasury funding, you need to have
	7	gone through a two-year program called "The
	8	Major Project Leadership Academy", and this has
	9	been going on for many, many years, probably
	10	twelve, fifteen years.
12:02:27	11	And there's an understanding that
	12	major programs requires a different level of
	13	training. And the leaders of major programs are
	14	trained to manage that. And I don't think that
	15	level of understand exist in the Province of
	16	Ontario or even Canada, where a major program is
	17	viewed the same as any other program. So if you
	18	can deliver an infrastructure project of
	19	\$200 million, \$300 million then all you have to
	20	do is scale it up. You increase the resources
	21	and you're capable of delivering, when in
	22	reality it is a completely different beast.
12:03:10	23	And I think starting there's a
	24	concept in the United Kingdom called "capable
	25	owner", and there's been a lot of emphasis over

	1	the last ten years about having capable owners.
	2	Which doesn't mean that we have incompetent
	3	owners, it just means these are not normal
	4	projects. They're major programs and they are
	5	completely different. And I think starting to
	6	understand that and preparing the people
	7	involved in those programs will go a long way to
	8	help remove complexity or dealing with
	9	complexity and removing some of the root causes.
12:03:54	10	KATE McGRANN: And I think that you've
	11	answered this question but I'll ask it and if
	12	there's anything you want to add let me know.
	13	The Commission has been asked to make
	14	recommendations to try to prevent issues like
	15	this from happening going forward, any specific
	16	recommendation or areas of recommendations,
	17	beyond what you've already shared, that you
	18	would suggest be considered in that work?
12:04:11	19	RICCARDO COSENTINO: No. I think I've
	20	talked about I talked about the best
	21	practice you know, looking at the best
	22	practices from the United Kingdom's
	23	jurisdiction, looking at the best practices
	24	there, that's what I would recommend.
12:04:32	25	KATE McGRANN: And I'll ask your

	1	counsel if she has any follow-up questions she
	2	wants to ask.
12:04:36	3	JESSE WRIGHT: No, no other questions
	4	for me.
12:04:39	5	KATE McGRANN: That brings our
	6	questions for today to a close and we can go off
	7	the record.
12:04:44	8	Completed at 12:04 p.m.
12:04:44	9	
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12:04:44	1	REPORTER'S CERTIFICATE
12:04:44	2	
12:04:44	3	I, HELEN MARTINEAU, CSR, Certified
	4	Shorthand Reporter, certify;
12:04:44	5	That the foregoing proceedings were
	6	taken before me at the time and date therein set
	7	forth, the witness having been placed under oath
	8	by me;
12:04:44	9	That the statements of the presenters
	10	and all comments made at the time of the meeting
	11	were recorded stenographically by me;
12:04:44	12	That the foregoing is a certified
	13	transcript of my shorthand notes so taken.
12:04:44	14	
12:04:44	15	Dated this 13th day of May, 2022.
12:04:44	16	1
12:04:44	17	AMartines
12:04:44	18	GT TOOLGOOD
12:04:44	19	Per: Helen Martineau
12:04:44	20	Certified Shorthand Reporter
12:04:44	21	
12:04:44	22	
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12:04:44	24	
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