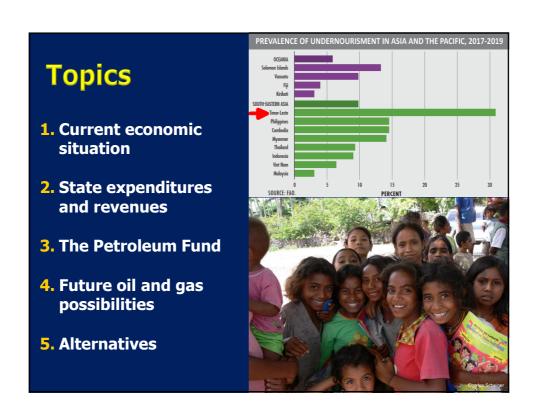
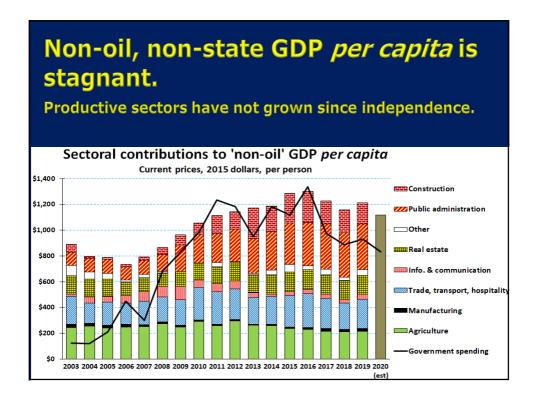
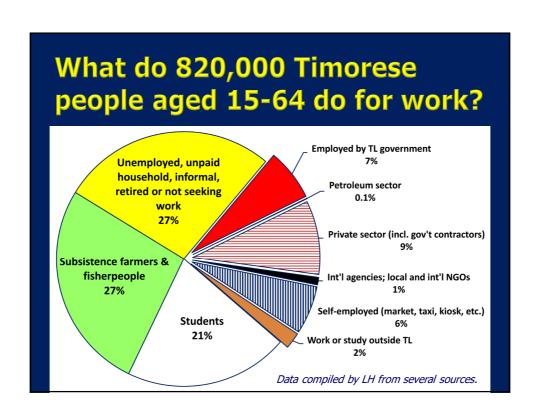
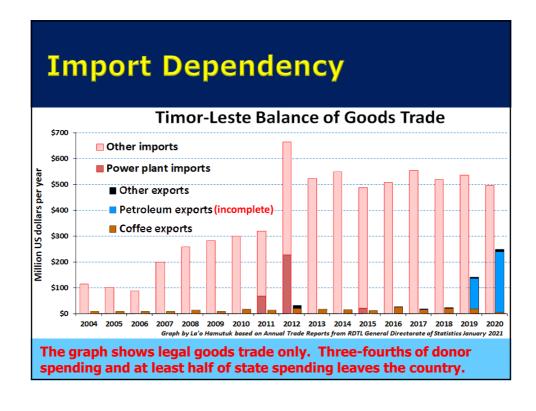
Timor-Leste: 2021 economic survey Webinar at Australian National University by Charles Scheiner 10 February 2021

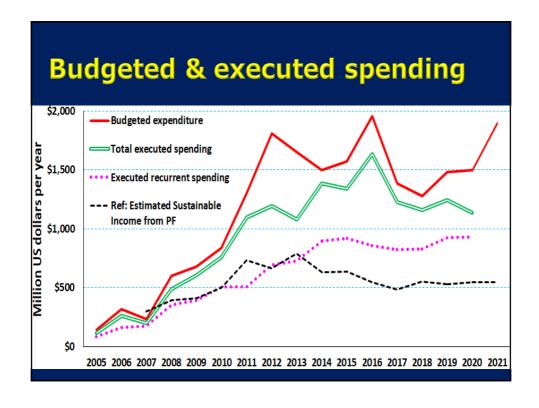


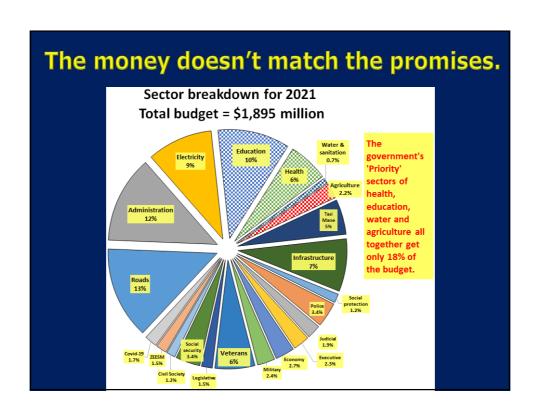


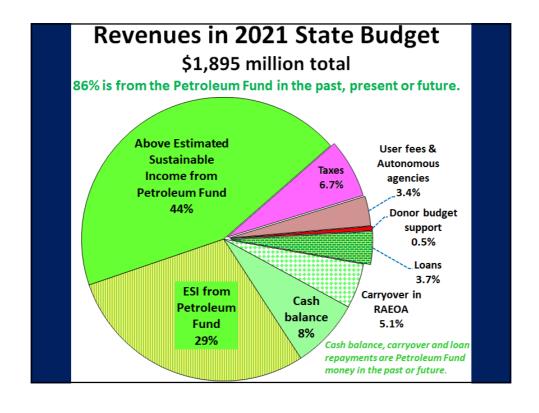


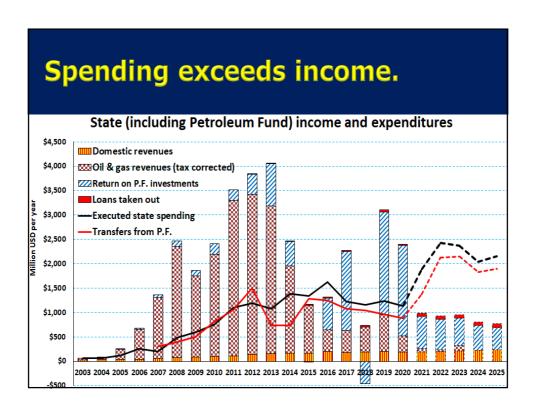


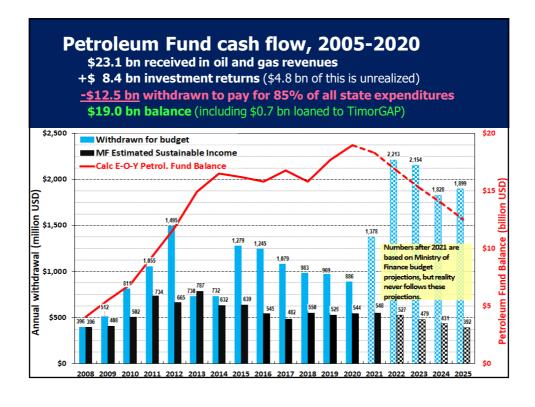
and municipality, Tim	or-Leste DHS		y would q	dirtilos, ari		oemolent,		o residence
Poverty Wealth quintile				ile			Number of	Gini
Residence/region	Lowest	Second	Middle	Fourth	Highest	Total	persons	coefficient
Residence								
Urban	1.5	3.4	8.8	30.0	56.2	100.0	16,539	0.11
Rural	26.9	26.2	24.2	16.3	6.4	100.0	44,030	0.25
Municipality								
Aileu	16.6	33.3	27.2	17.1	5.9	100.0	2.357	0.21
Ainaro	35.0	27.1	20.8	13.5	3.7	100.0	3,076	0.15
Baucau	20.0	22.4	22.5	22.6	12.6	100.0	6.994	0.23
Bobonaro	15.6	22.0	29.8	22.5	10.0	100.0	4,797	0.23
Covalima	24.4	18.9	24.8	20.8	11.1	100.0	3,569	0.15
Dili	2.9	4.4	6.8	26.0	59.8	100.0	12,625	0.18
Ermera	30.0	32.8	21.9	11.2	4.1	100.0	5,818	0.27
Lautem	15.1	20.9	25.4	26.5	12.2	100.0	3,374	0.21
Liquiçá	17.0	28.3	24.1	18.8	11.9	100.0	3,966	0.28
Manatuto	18.7	19.3	25.5	21.7	14.9	100.0	2,795	0.26
Manufahi	24.2	22.7	20.2	21.6	11.3	100.0	3,201	0.27
SAR of Oecussi	45.7	18.7	16.8	10.6	8.2	100.0	3,985	0.25
Viqueque	30.3	22.0	24.3	15.0	8.3	100.0	4,012	0.27
Total	20.0	20.0	20.0	20.0	20.0	100.0	60.569	0.16

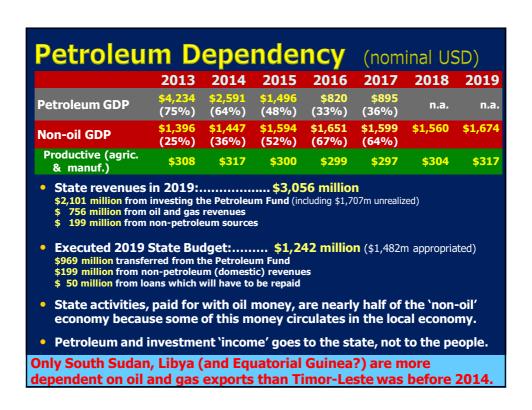


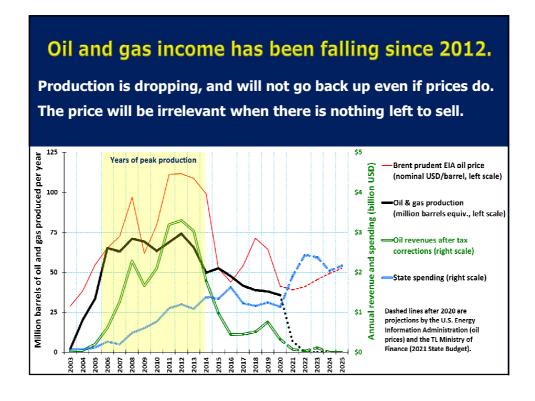




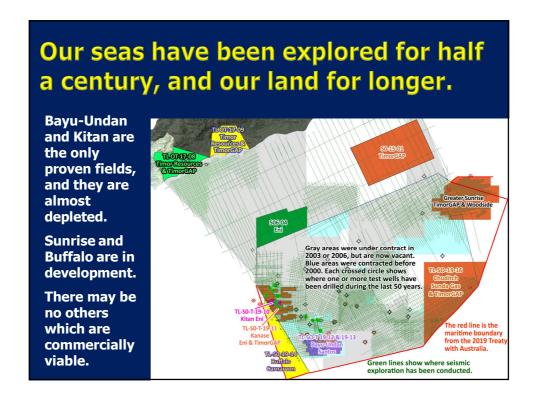








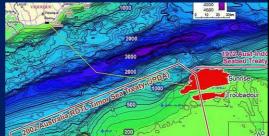
Timor-Leste's neighbors have much more petroleum than it does.								
	Timor- Leste (70% Sunrise)	TL without Sunrise	Australia	Brunei				
Proved oil and gas reserves at end of 2019 (million barrels equiv.)	540	32	16,400 (16,200 without Sunrise)	2,500				
Reserves per person (barrels)	420	25	650 (640 without Sunrise)	5,700				



Current and future projects								
Project	Operator (partners)	Oil & gas reserve (mmBOE)	Possible future revenues (million USD)	Status				
Bayu-Undan current wells	Santos 46% (SK E&S, Inpex, Eni, JERA/Tokyo Gas)	20	\$209	Produced 800 mmBOE since 2004, will end in 2022.				
Bayu-Undan infill wells	Santos 46% (SK E&S, Inpex, Eni, JERA/Tokyo Gas)	20	\$0	Three more production wells will be drilled in mid-2021 and may extend production 1-2 years.				
Greater Sunrise	Woodside 33% (TimorGAP 57%, Osaka Gas)	1,080	?	Discovered in 1974. Seeking financing to proceed with development. High capital costs. TL will get 70% of state revenues.				
Buffalo	Carnarvon 50% (Advance Energy)	31	\$465	Produced 20 mmBOE in 1999-2005 for BHP and Australia. First new well planned for late 2021.				
Onshore (Covalima & Manufahi)	Timor Resources 50% (TimorGAP)	40	\$600	First test wells planned for July 2021.				
Chuditch	SundaGas 75% (TimorGAP)	588(?)	?	Shell drilled a test well in 1998 but did not continue. New owners will decide by the end of 2022 whether to drill another.				
Three other contract areas	TimorGAP and Eni	?	unlikely	Not enough work has been done to estimate possible reserves. No wells planned.				

The Greater Sunrise stalemate

- The project was stalled because Timor-Leste and the companies do not agree on how it should be developed.
- Woodside and its partners believed that an undersea gas pipeline to the Darwin LNG plant used for Bayu-Undan would be more profitable.
- Timor-Leste wants a pipeline from Sunrise to Beaçu, to get more jobs and revenues, and to anchor the Tasi Mane project.
- Under contracts and treaties, the companies propose the development plan, but both governments need to approve it.
- Because of Australian spying, TL forced Australia negotiate a boundary treaty, but the 2019 agreement did not settle where the pipeline will go.
- Timor-Leste bought 57% of Sunrise from ConocoPhillips and Shell to control the decision.
- The impacts of Covid-19 have caused companies everywhere to delay or cancel projects. In mid-2020, Woodside devalued Sunrise to zero.
- New leaders in TL's petroleum sector are re-evaluating the project.



Tasi Mane petroleum infrastructure project

- In 2010, TL began to plan a South Coast Petroleum Corridor.
- During 2011-2019, TL expended more than \$500 million on it.
- In 2019, TL bought 57% ownership of Greater Sunrise for \$650m ... and will now have to pay 57% of offshore development costs.
- Total capital costs could exceed \$20 billion.
- No investors have shown interest.



What will Tasi Mane really cost?

This estimates capital expenditures only, not operational costs. Most have never appeared in state budget forecasts.

Money spent,	budgeted	and required to	build th	e Tasi IV	iane proj	ect (milli	ons of U	(טנ
ponent	Location	Status	Spent through 2019	Budgeted 2020	Budgeted 2021	Budgeted 2022-2025		Percent budgeted
rt	Suai	Constructed	75	3	3	9	100	91%
ly base	Suai	Tender pending	51	1	5	745	900	89%

			2019	2020	2021	2022-2025	cost	budgeted
Airport	Suai	Constructed	75	3	3	9	100	91%
Supply base	Suai	Tender pending	51	1	5	745	900	89%
Highway	Suai-Fatukai	Mostly built	305	1	3	4	340	92%
Highway	Fatukai-Beaçu	Not started	3	0	1	22	1,320	2%
Airport	Viqueque	Not started	-	-	-	-	75	0%
Oil refinery & pipelines	Betano	Pending design	5	-	-	6	1,500	1%
Gas pipeline, LNG plant & port	Sunrise-Beaçu	Pending design, seeking financing	18	-	-	21	6,000	1%
57% share of Greater Sunrise Joint Venture	Offshore	Borrowed directly from the Petroleum Fund	650				650	100%
Interest on loan to buy into Sunrise JV	Offshore	Debt accrued in Petroleum Fund	21	30	32	141	512	44%
57% of Sunrise upstream capital expenditure	Offshore	Pending design, seeking financing	-	-		-	6,840	0%
Administrative and other costs	Dili	Ongoing	46	14	68	-	500	26%
TOTAL			1,174	49	112	948	18,737	12%

What are the alternatives?

- Invest in human resources: education, health, and nutrition. These are prerequisites for everything else.
- Build infrastructure that people need: rural roads and water supply, local schools and clinics, decentralized renewable electricity.
- Don't forget people outside the formal economy.
- Strengthen sectors which build on Timor-Leste's strengths: agriculture, community-based tourism, small industries making products for domestic use.
- Adopt policies based on evidence and objective analysis, not on fantasies, politics or dreams.

Thank you.

Get more information at

La'o Hamutuk's website www.laohamutuk.org

La'o Hamutuk's blog laohamutuk.blogspot.com



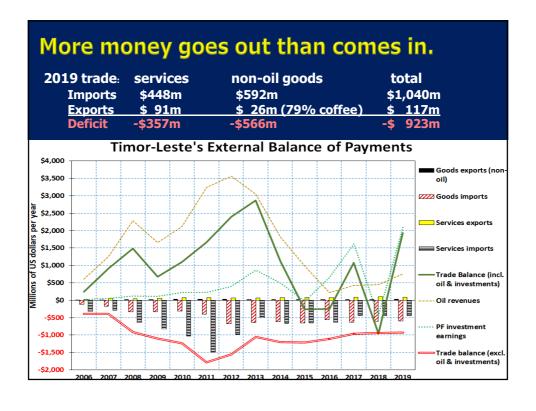
Timor-Leste Institute for Development Monitoring and Analysis

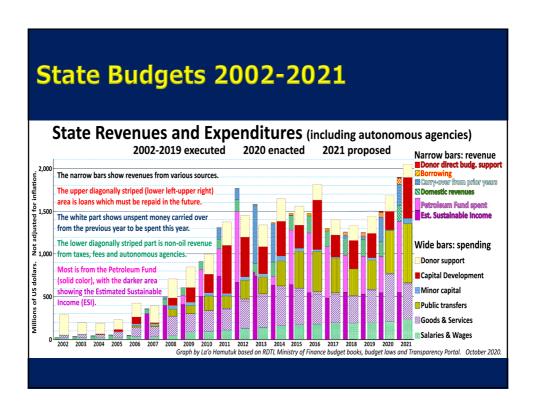
Rua D. Alberto Ricardo, Bebora, Dili, Timor-Leste Mailing address: P.O. Box 340, Dili, Timor-Leste

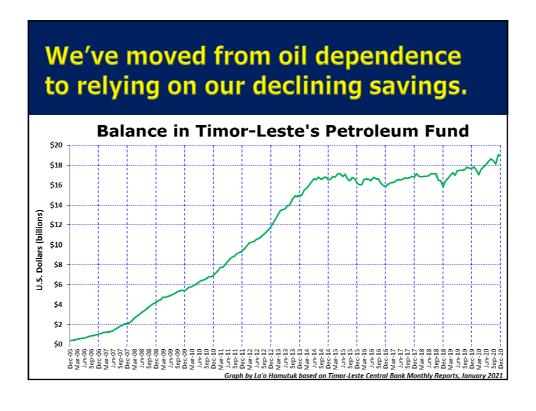
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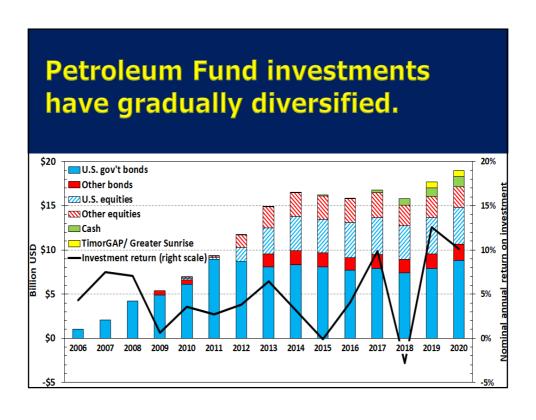
Email: laohamutuk@gmail.com

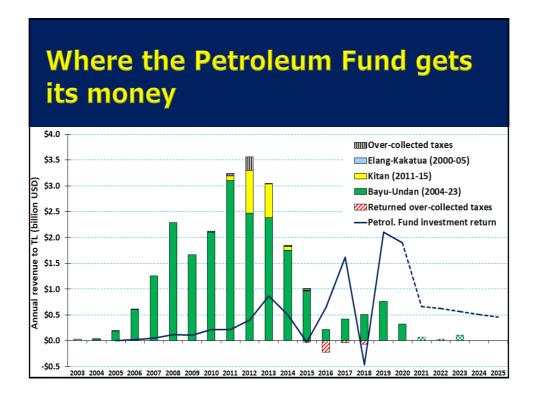
The following slides are not being presented during my talk, but they could be useful during the discussion.











Timor-Leste is in debt.

- Laws in 2009 opened the door to foreign loans.
- Since 2012, TL has signed* contracts to borrow \$475 million:
 - o \$272 million from the Asian Development Bank (ADB) for roads
 - \$134 million from the World Bank for roads
 - o \$ 69 million from Japan (JICA) for roads
- From these contracts, \$223 million has been disbursed so far.
- Future borrowing is unclear, although Sunrise and the Tasi Mane Project may require borrowing billions of dollars.
- The 2021 Budget authorizes \$420 million in new loan contracts.
- By 2023, Timor-Leste will be paying \$27 million each year in debt service, which will rise to \$56 million/year if \$420m in new contracts are signed and money is disbursed.

*Not including a \$50 million loan from China that was invalided by the Audit Court.

