

# How long will the Petroleum Fund carry Timor-Leste?

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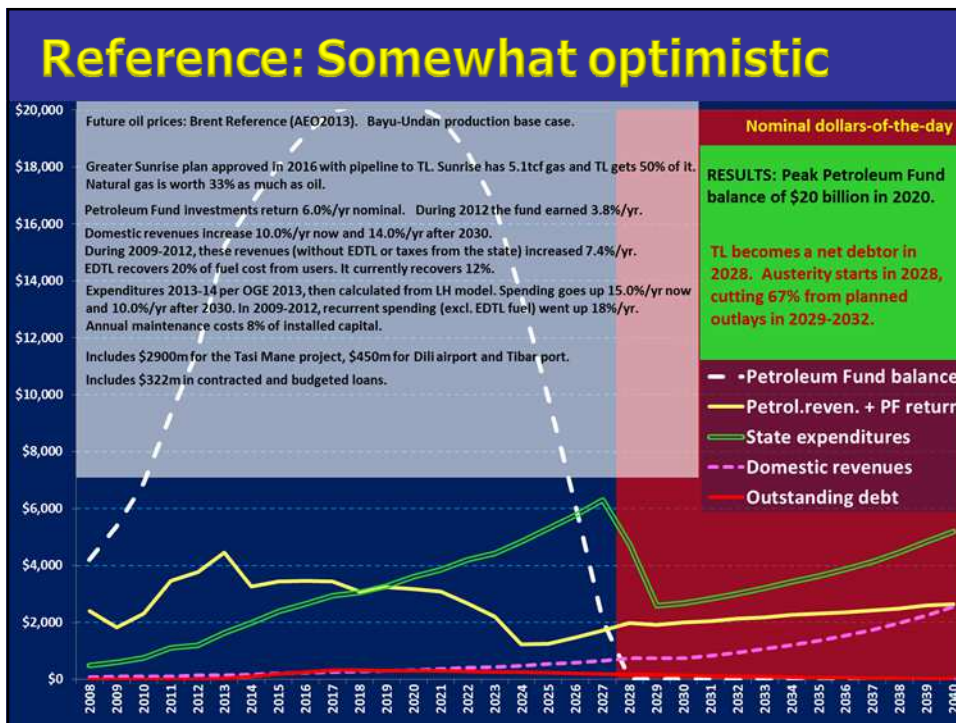
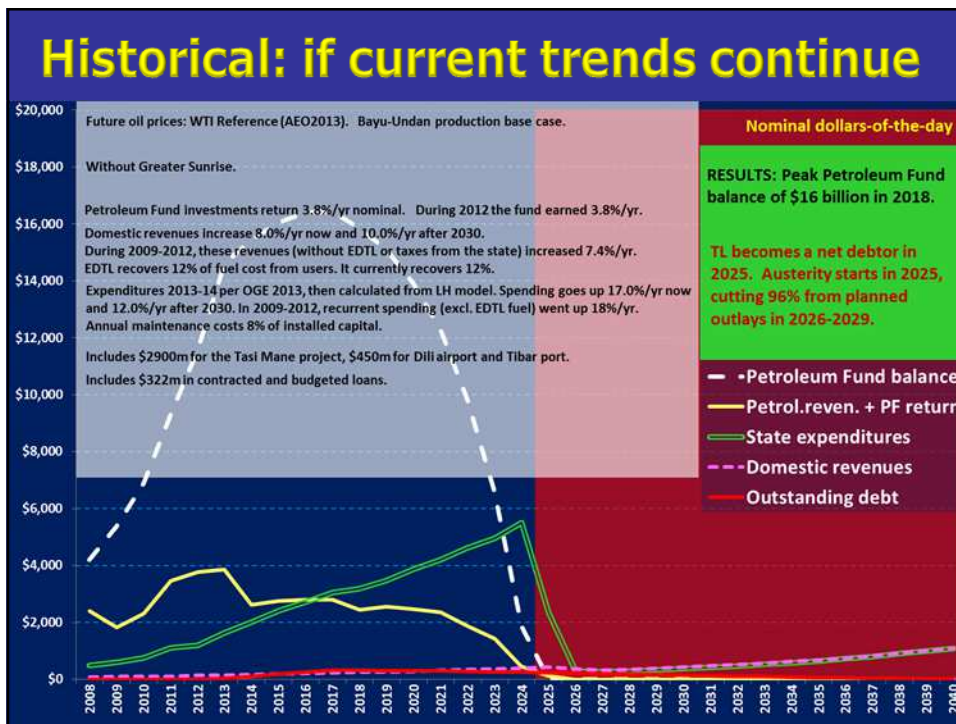
15 July 2013

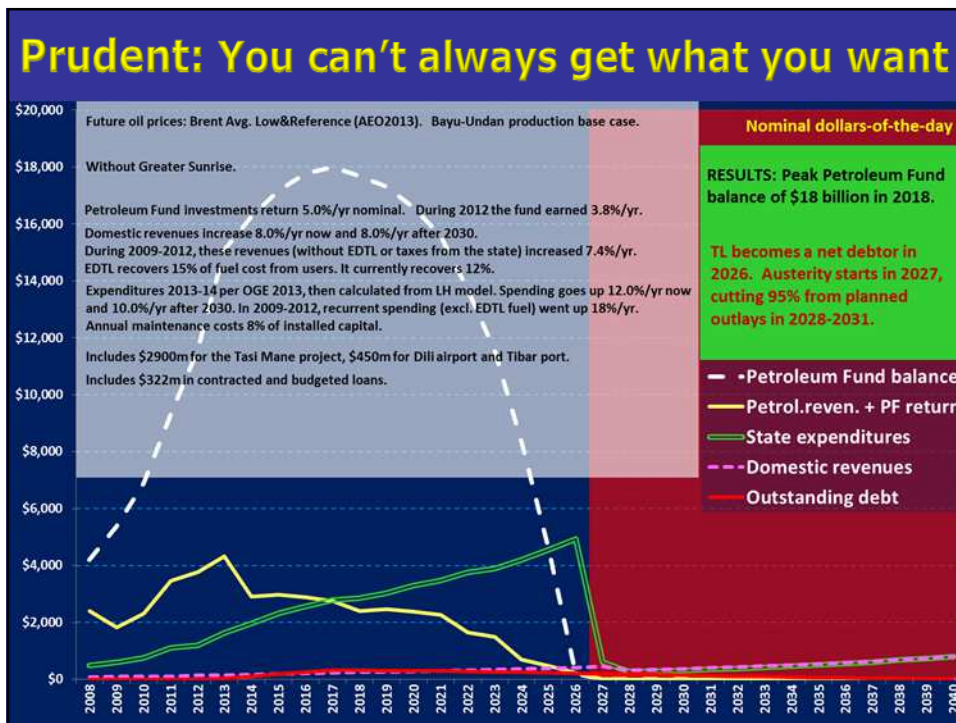
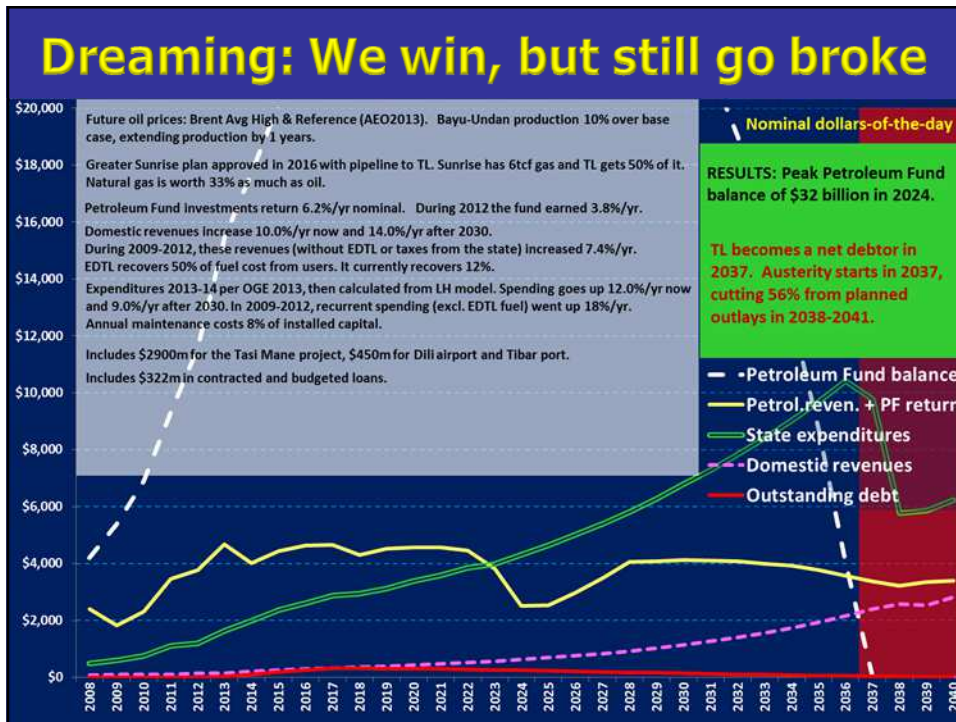


## How long will the Petroleum Fund carry Timor-Leste?

- With current policies, until 2024.
- If we're lucky and smarter, until 2027.
- With a lot of luck and skill, until 2036.
- If we're lucky, strategic, prudent and wise, until our non-oil economy can replace it.

**What must we do to prevent Timor-Leste from going broke before today's babies finish secondary school?**





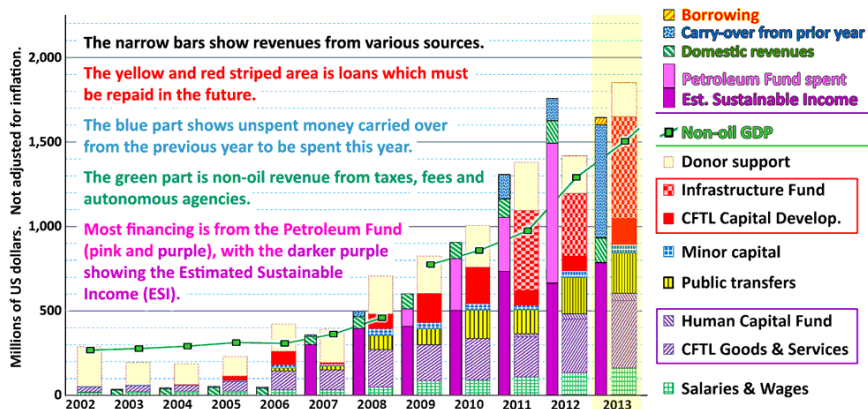
## Petroleum Dependency

- **2013 State Budget:**..... **\$1,648 million**  
**\$787 million (48%)** will be from the Petroleum Fund in 2013.  
**\$680 million (40%) more** is from the PF in the past and future.
- **Non-oil GDP in 2011:**..... **\$1,046 million**  
**Petroleum GDP in 2011:**..... **\$3,463 million (81%)**
- **State activities, paid for with oil money, are about half of our "non-oil" economy, because some of this money circulates in the local economy.**
- **Balance of trade (2012): \$670m imports, \$31m exports.**

**South Sudan is the only country more dependent on oil and gas exports than Timor-Leste.**

## State Budgets 2002-2013

**State Revenues and Expenditures** (including auton. agencies)  
 2002-2012: Executed budget.    2013: Promulgated budget.



**The State Budget goes up far above inflation, faster than the economy and faster than almost every other nation.**

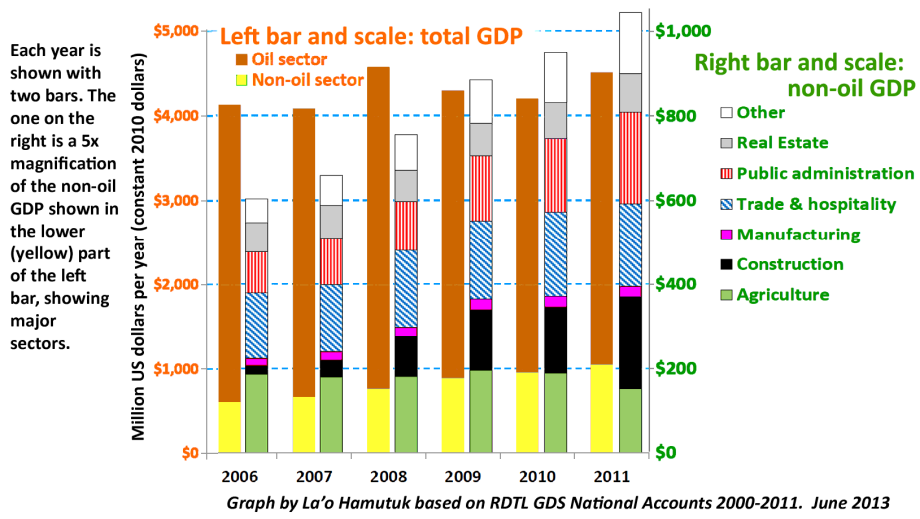
## The 2013 Budget is for infrastructure.

### Allocation of the 2013 State Budget (\$1,648 million US Dollars)



## Except for oil, only the state grows.

### What makes up Timor-Leste's GDP?



## Signs of the "resource curse" (1)

- **Seeing money as the solution to every problem**  
It's easier to buy a scholarship than to build a university.
- **Spending without thinking**  
Real state expenditures grow more than 20% per year.
- **Lack of realistic long-term planning**  
The Strategic Development Plan is but a dream.
- **Import dependency**  
Timor-Leste has a billion-dollar non-oil trade deficit.
- **Inflation from little local productive capacity**  
Our productive economy cannot absorb the cash in circulation.

## Signs of the "resource curse" (2)

- **Ignoring non-oil development and revenues**
- **Acting as if the oil money will last forever**  
Bayu-Undan and Kitan will be dry by 2024.
- **Borrowing today, to repay tomorrow**  
TL will borrow \$480 million in the next five years, often for projects with little chance of return, and much more after that.
- **Wealth goes mainly to the urban elite.**  
Most people won't benefit from highways, airports and oil facilities, but will feel the burden of loan repayments.
- **Petroleum sector "captures" decision-making.**  
Few creative ideas to develop agriculture, education, tourism, small industries ...

## Reasons for this model

- To support prudent, evidence-based planning decision-making.
- TL's finite oil wealth won't last very long.
- Today, we depend on it for everything.
- To explore the effects of policy and uncontrollable changes.
- Take "engineering approach" – history, assumptions and causality, not correlations

## Sustainability is not a new idea in Timor-Leste

- 2004: Estimated Sustainable Income Petroleum Fund rule (front-loaded then, often violated)
- 2011: UNDP National Human Development Report
- 2009-2013: SDP, PPPs, Tasi Mane and other proposals mention but fail to implement it.
- 2011-now: MoF "Yellow Road" options, recently made public – but unlikely to be implemented.
- 2012: LH original "going for broke" model
- 2013: World Bank Country Strategy

## What this model is and isn't

- **Projects state revenues and expenditures based on current trends, external factors and future decisions**
- **Approximate, incremental and relative results, not precise predictions**
- **"Open source" – we welcome discussion and improvement**
- **Does not include economic predictions: no GDP, inflation, poverty or trade balance projections ... or dubious correlations**

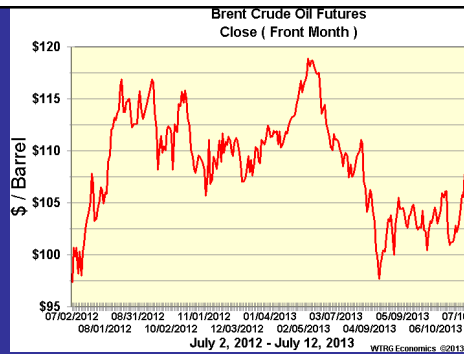
## Outputs

- **Revenues and spending year-by-year**
- **Balance remaining in Petroleum Fund**
- **Balance owed from loans**
- **Not on graphs:**
  - **Estimated Sustainable Income**
  - **Breakdown of spending: recurrent (salaries, transfers, goods & services), debt service, O&M, minor and development capital**
  - **Breakdown of income: EDTL, loans, domestic taxes, oil revenues, Petroleum Fund return**

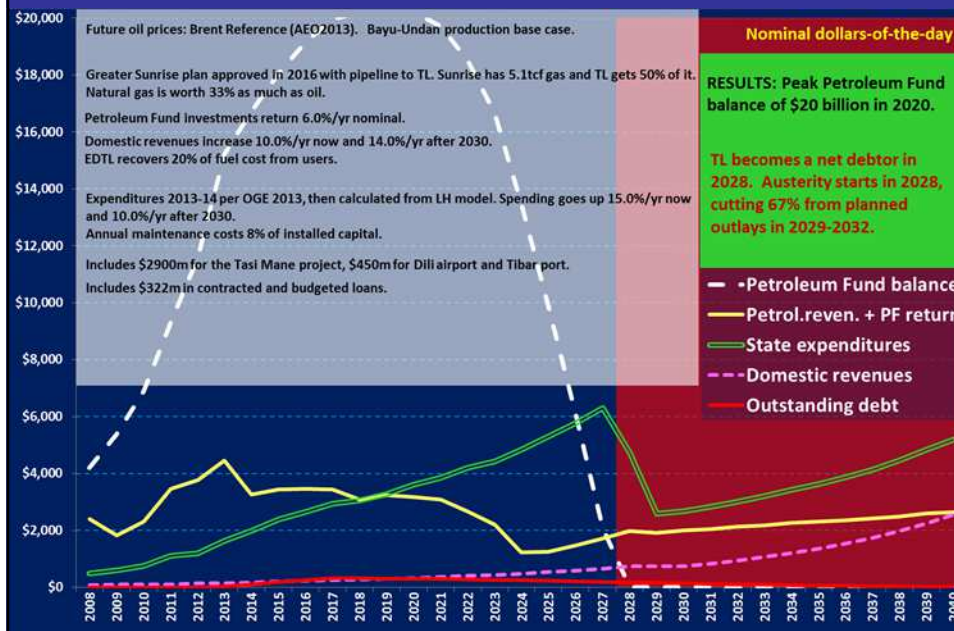


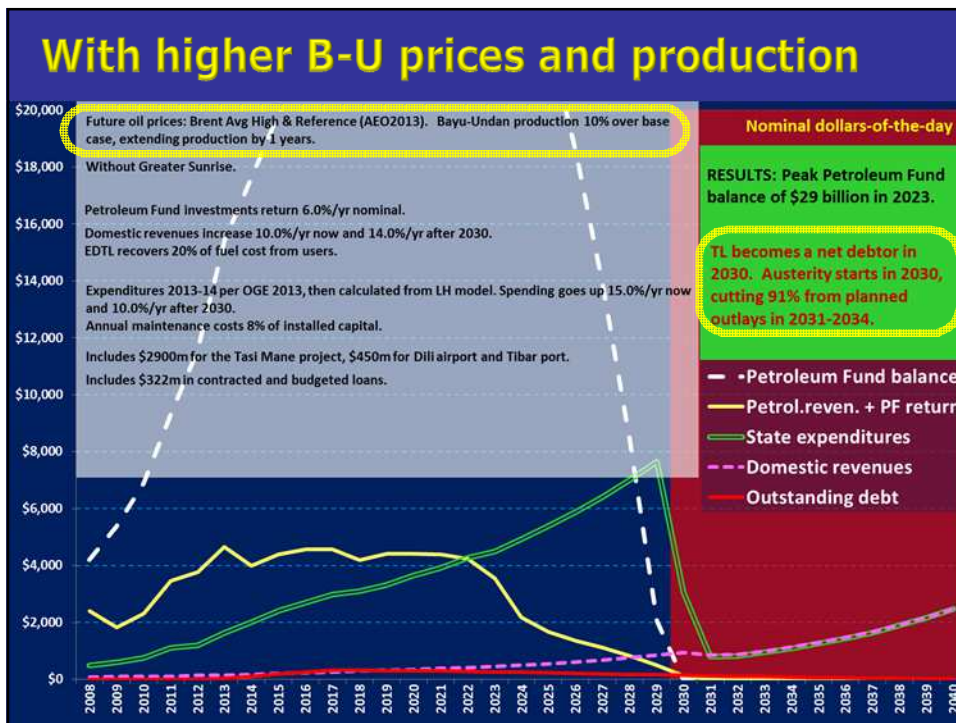
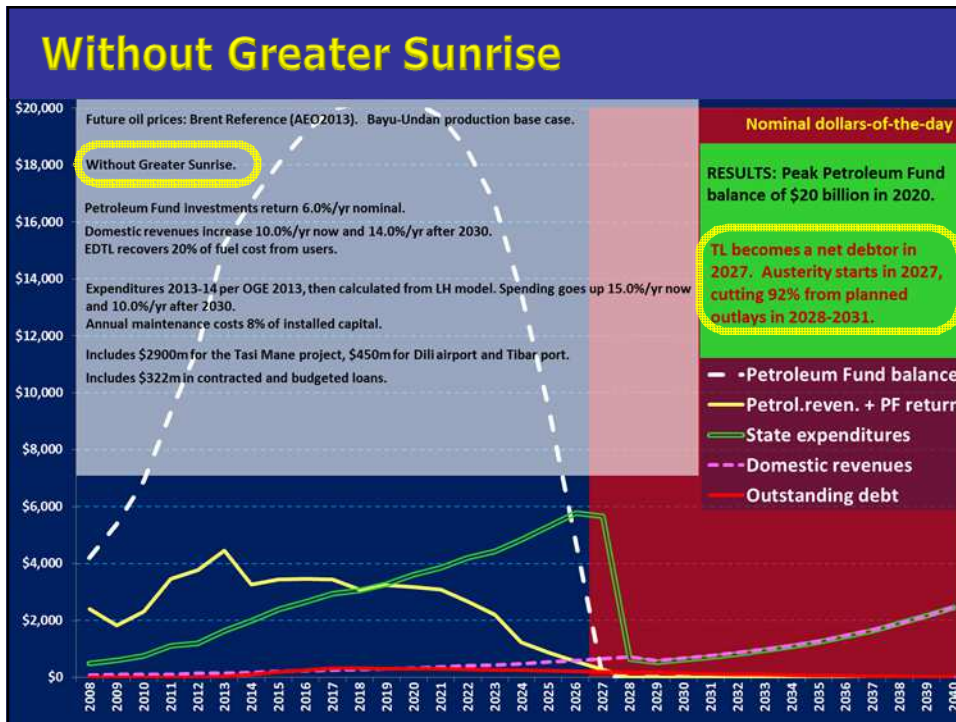
## Testable inputs

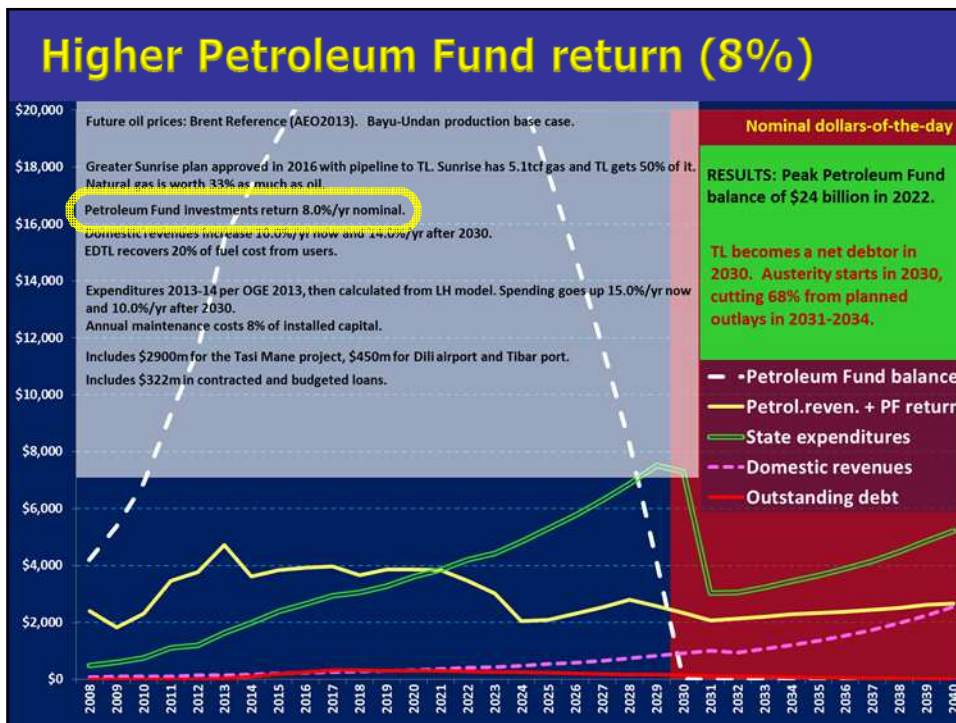
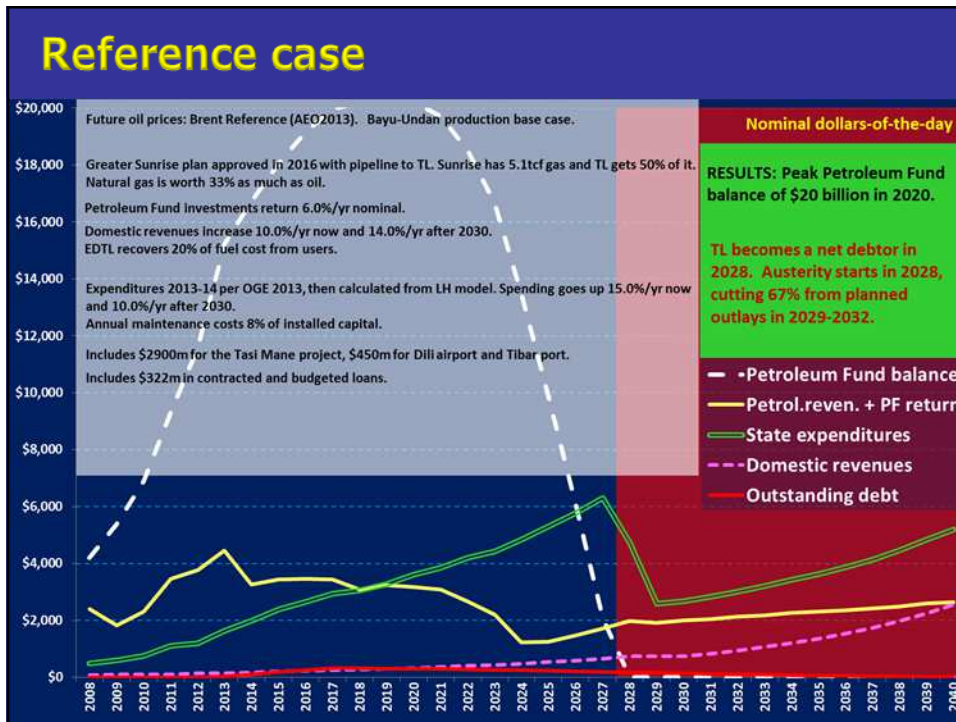
- **Global inflation, TL population, budgetary relationships**
- **Oil prices:** Brent or WTI; EIA price cases; gas/oil ratio
- **Production:** recoverable from Bayu-Undan and Sunrise
- **Greater Sunrise development:** if, when, where and revenue split
- **Return on Petroleum Fund investments**
- **Domestic revenues,** including recovery of EDTL fuel costs
- **Recurrent expenditure,** including maintenance of capital
- **Capital expenditure:** PPP and Tasi Mane components: if and amounts
- **Loans:** existing, planned and possible for projects and deficit, including amounts, interest and repayment periods
- **“Yellow Road” and other sustainable scenarios**

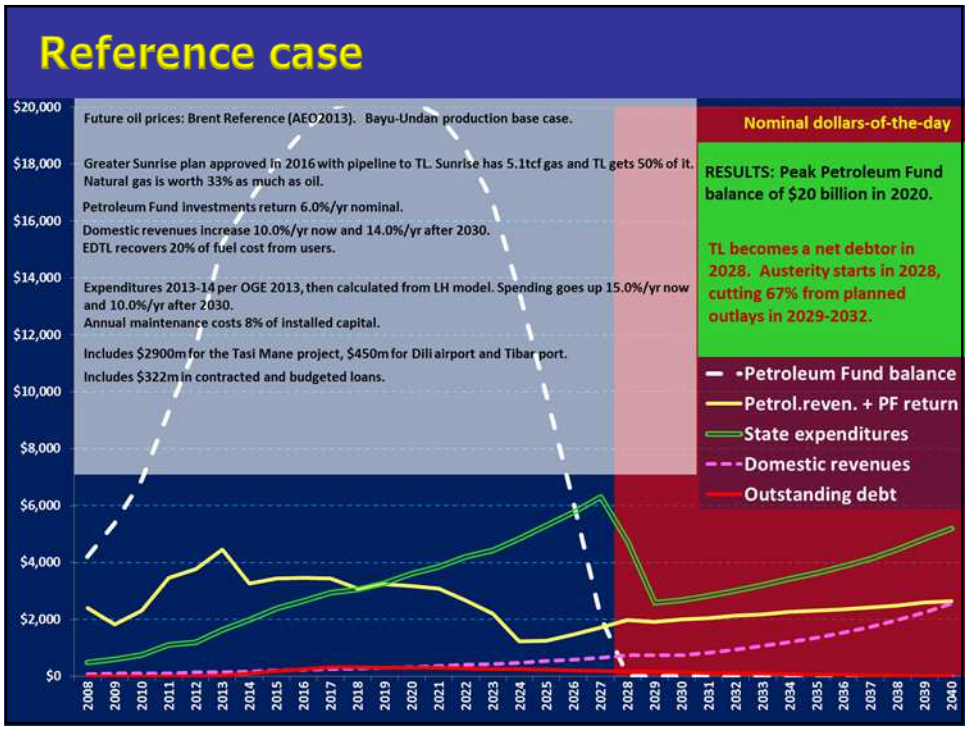
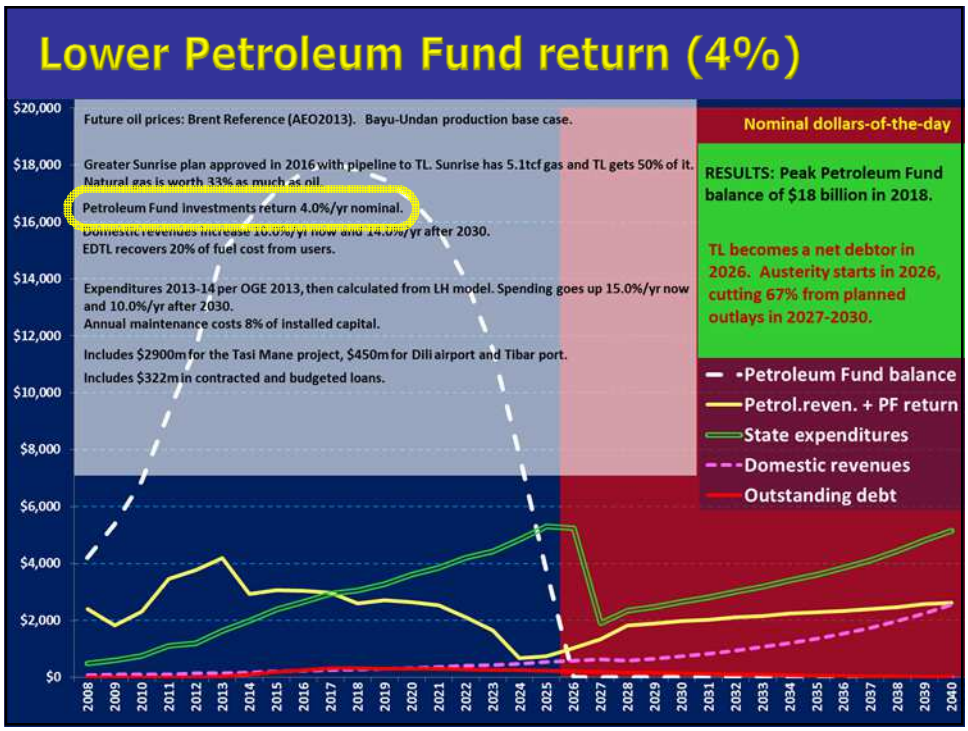


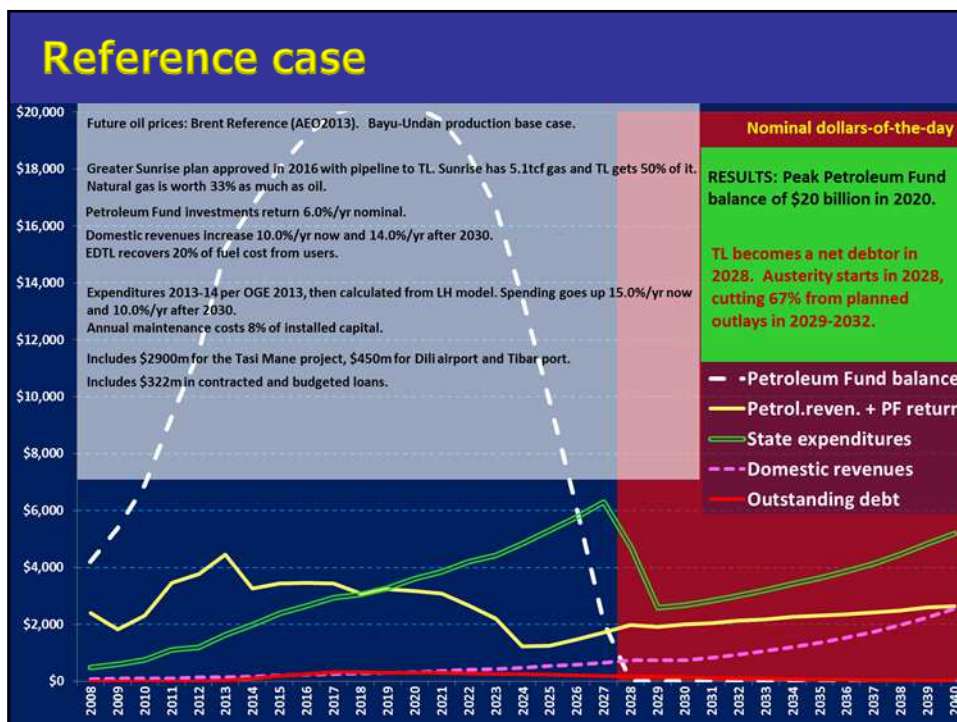
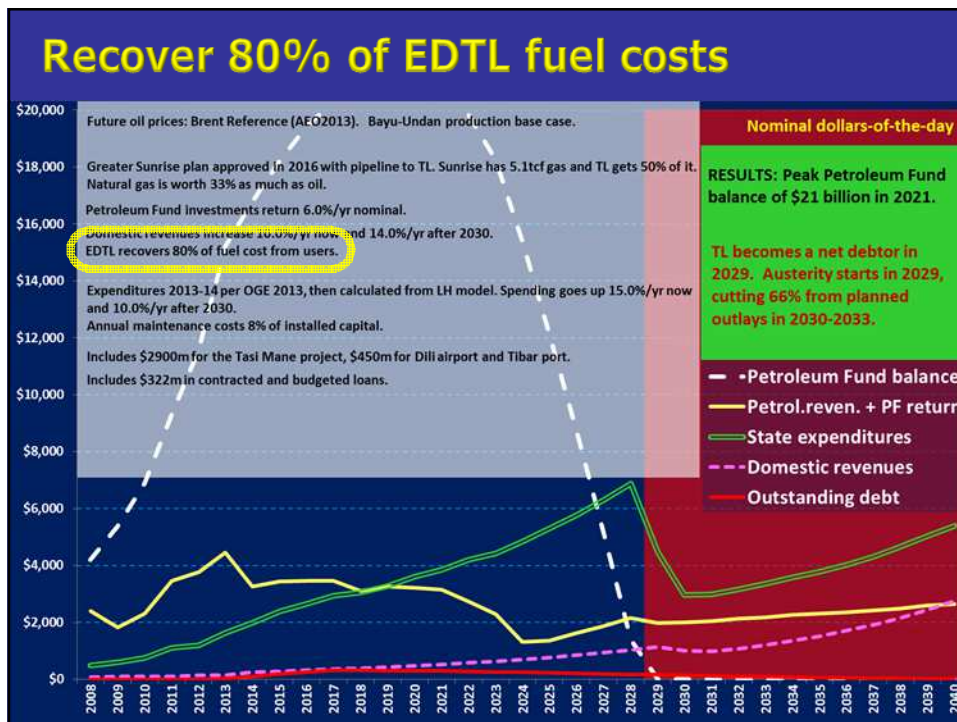
## Reference case (a bit optimistic)

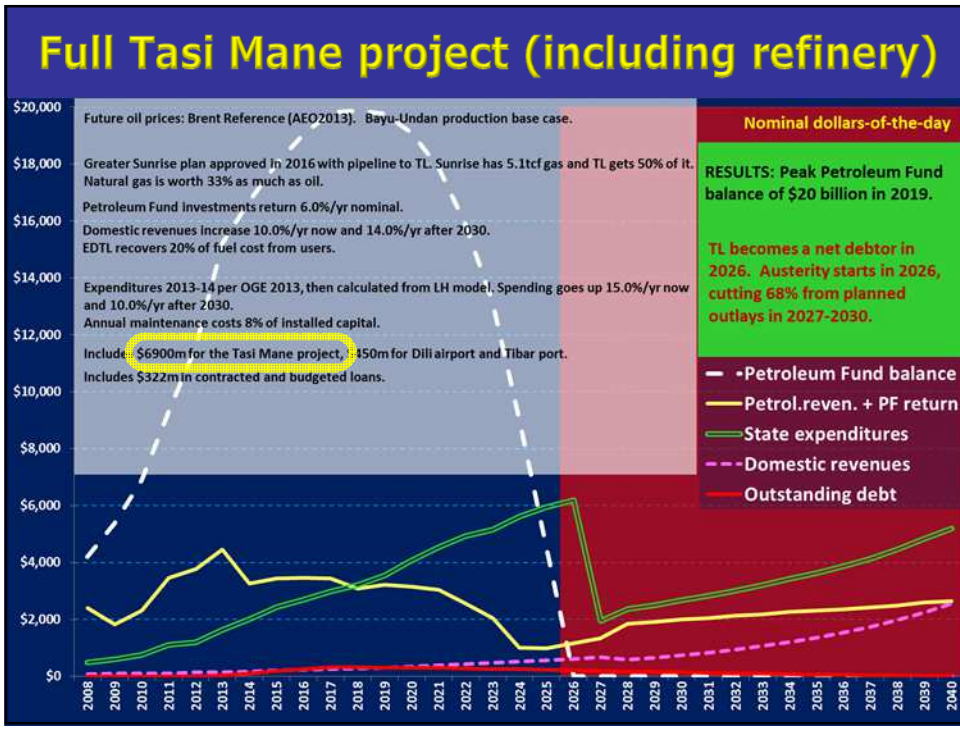
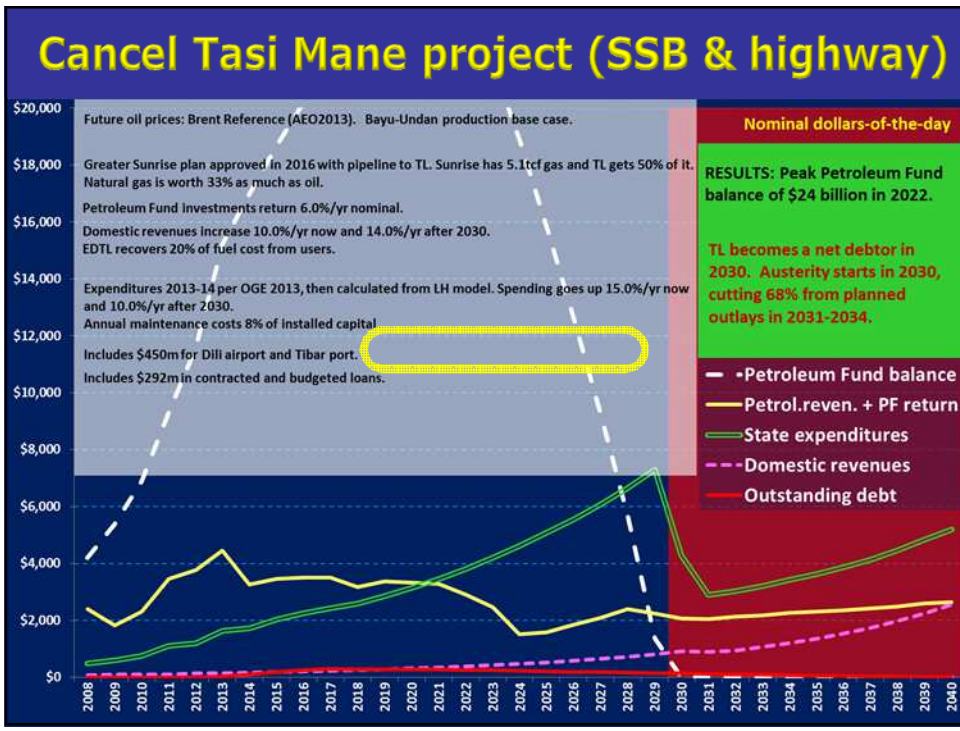


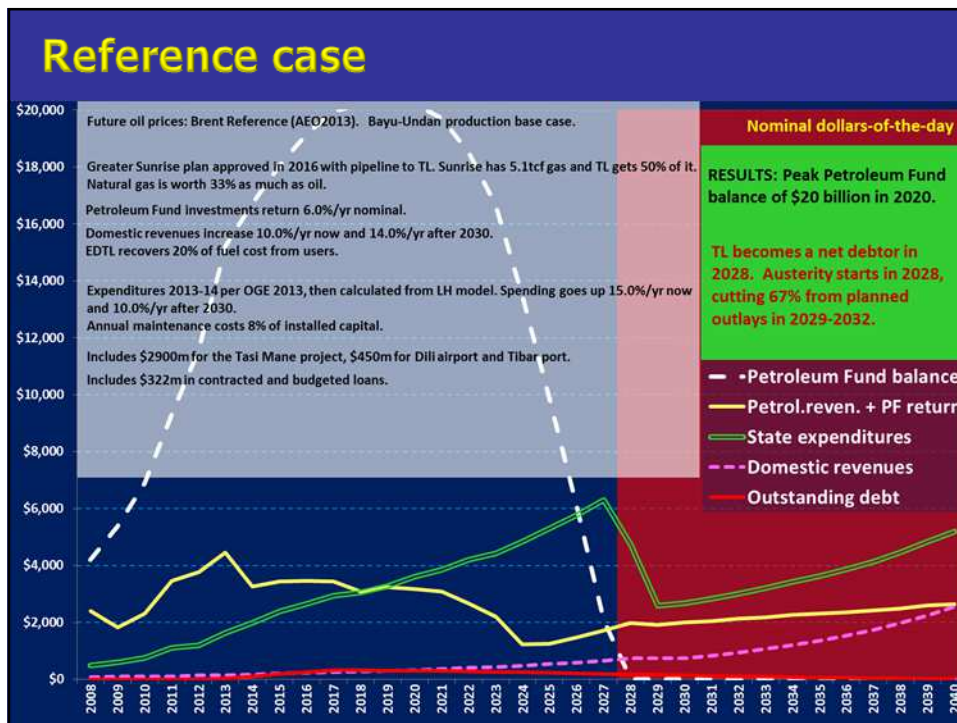
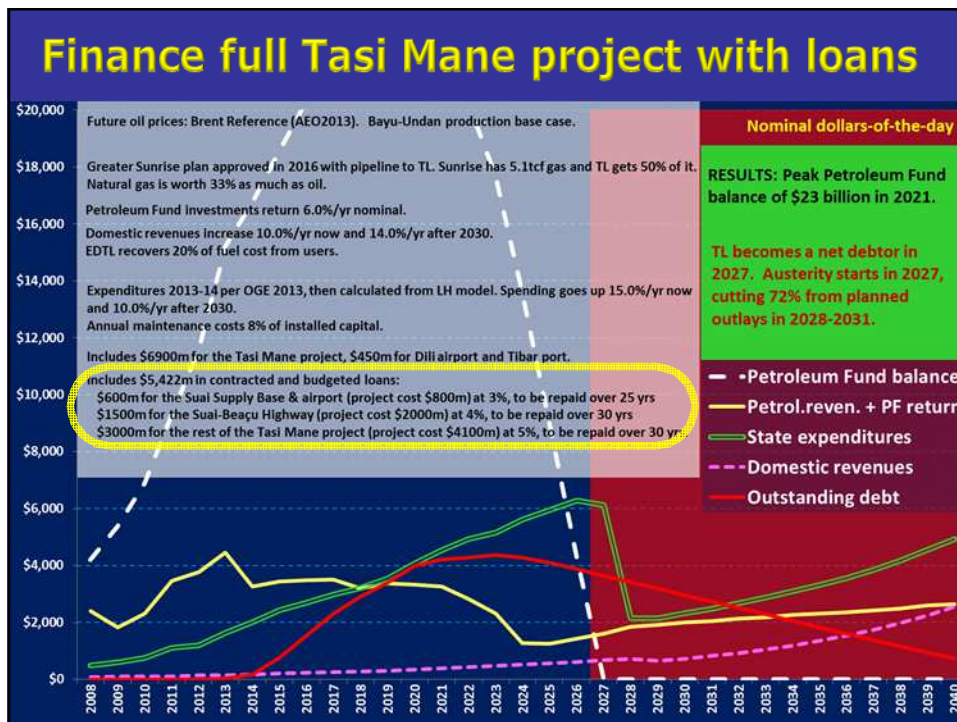


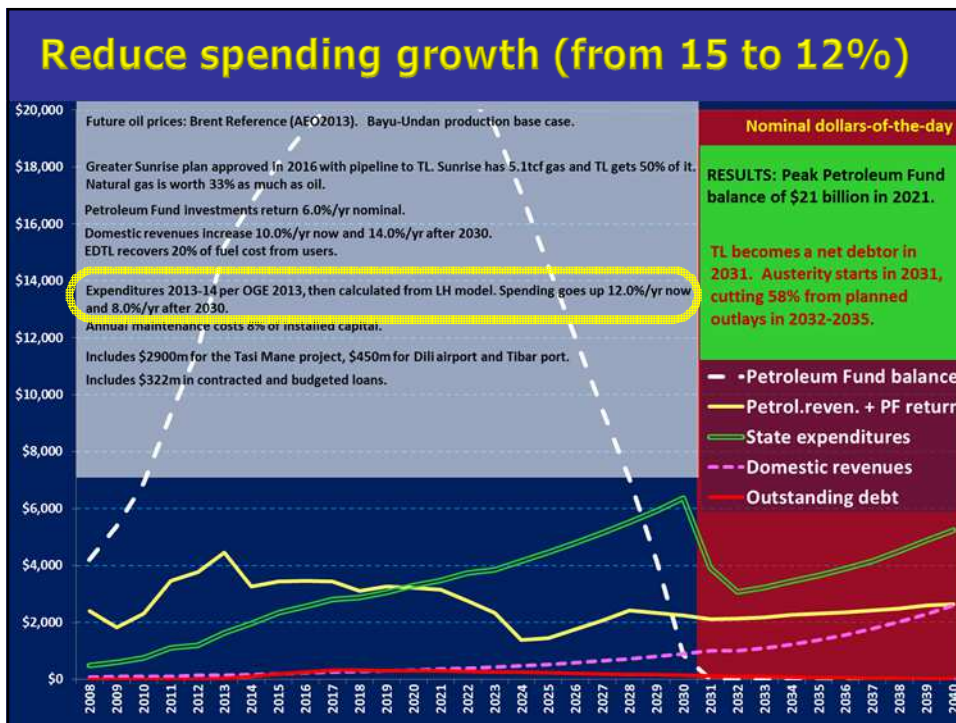
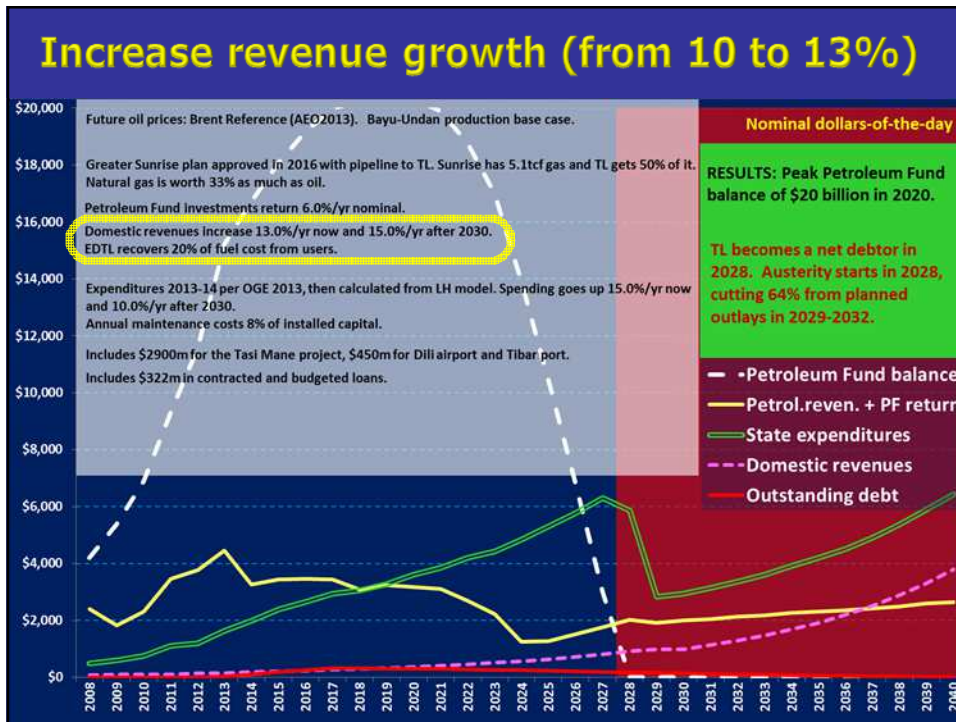




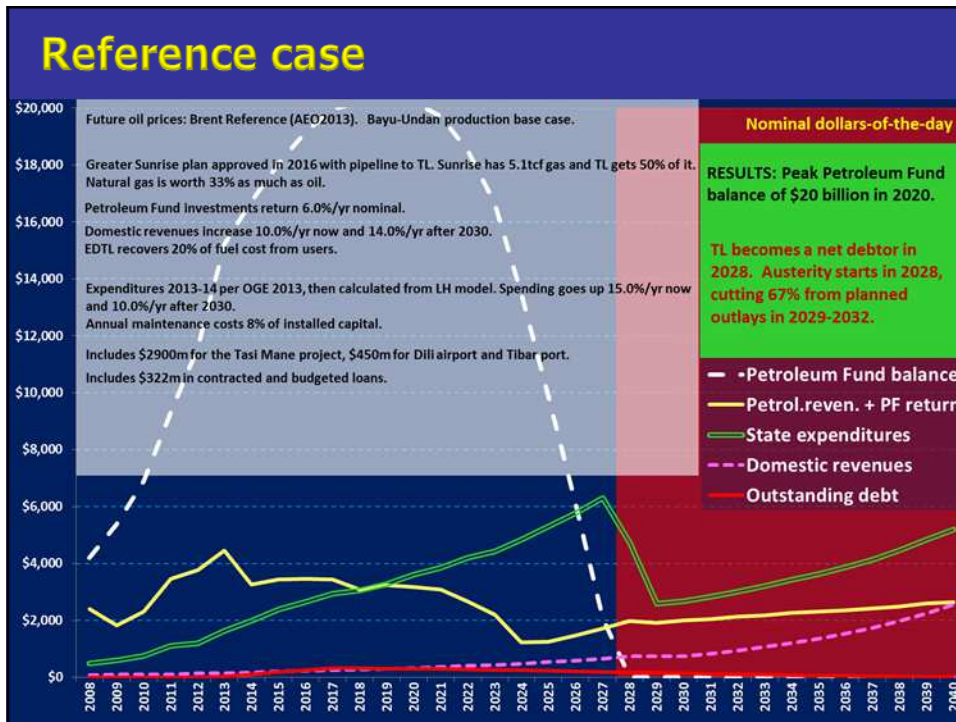


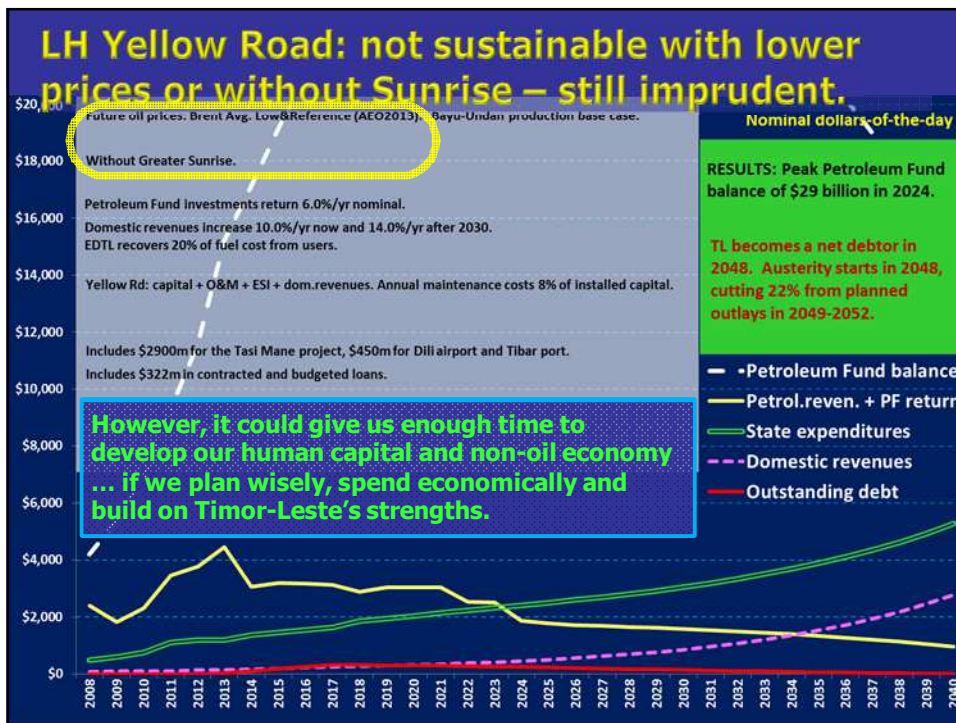












## Still to explore

- Other capital investment
- More refined recurrent cost projections, including pensions
- Possible future oil discoveries
- Links between human & physical investment and revenue growth
- Baby boom population dynamics
- Impacts of local inflation

## Thank you.

La'o Hamutuk will hold an in-depth workshop on this model next week. Check our blog for details.

You can find more and updated information at

- La'o Hamutuk website <http://www.laohamutuk.org>
- La'o Hamutuk blog <http://laohamutuk.blogspot.com/>
- Reference DVD-ROM available from our office.

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