# INVESTMENTINSTITUTE

Natural resources, sovereign wealth funds and economic diversification

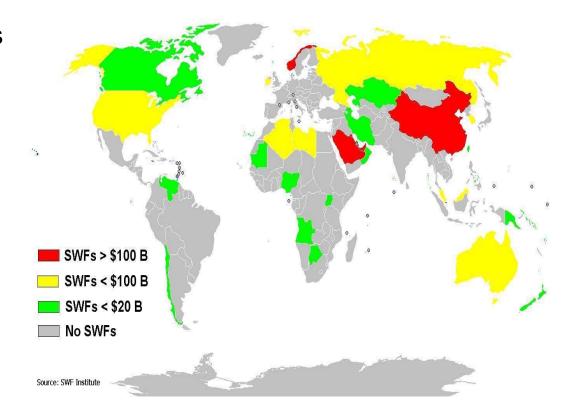
Malan Rietveld

MEFMI Combined Forum
6 October 2015
Lima, Peru



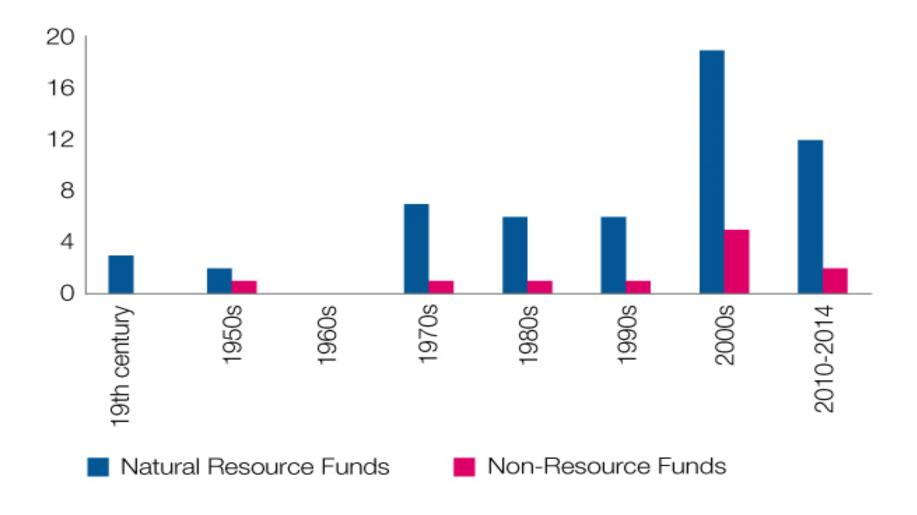
# The growth of new SWFs

- A number of very established, large funds
  - Proliferation of new funds since 2000
- Aggregate assets-under-management of \$4-6 trillion
- Massive economic diversity amongst countries with SWFs
  - Richest countries: Norway, Canada, US states
  - Poorest countries: East Timor, Papua New Guinea





# The growth of new SWFs





# **Project background**



#### Who

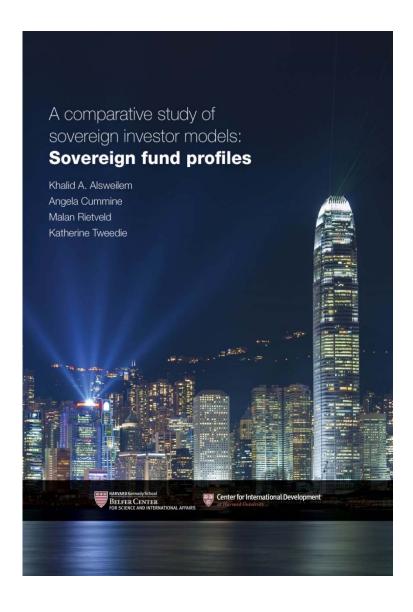
- Research partnership between two centres at Harvard's Kennedy School of Government and the Investec Investment Institute
  - Center for International Development: led by Prof. Ricardo Hausmann
  - Dr. Khalid Alsweilem: Fellow at Belfer Center and former Director-General for Investments, Saudi Arabian Monetary Agency

#### How

- Macroeconomic model: developed with Harvard team for resource-based SWFs
- Case studies of governance of 15 leading sovereign funds
- Interviews and peer reviews with global SWF experts and practitioners



# Report #1: Case studies



#### In-depth profiles of 15 sovereign investors

- Economic and political context
- Official mandate(s)
- Source of funding (savings rule)
- Liabilities (spending rule)
- Governance structure
- Investment style

#### **Funds studied**

- Norway
- Chile (stabilisation and saving funds)
- Abu Dhabi
- Kuwait
- Kazakhstan
- Botswana

- South Africa
- South Korea
- Hong Kong
- China (CIC & SAFE)
- Singapore (GIC & Temasek)
- Saudi Arabia



# Report #2: Sovereign Investor Models



#### **Defining sovereign investor universe**

- Classic SWFs: stabilisation, savings and income (and sovereign development) funds
- Central banks
- Public-pension reserve funds
- Development banks and funds

#### **Savings rules for resource-based SWFs**

- Rule of thumb measures: suboptimal
- Better to have an integrated, rule-based framework

#### Model

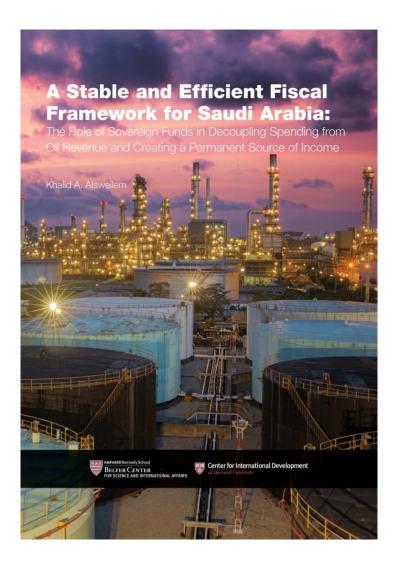
Rule-based framework for savings, spending and stabilisation

#### **Governance and implementation**

- Rules for resource-based SWFs
- The role and structure of the board
- Institutional positioning: arm's length independence, the central bank model, etc.



# Report #3: Saudi report



#### **Background**

- World's largest oil producer
- Decades of (cheaply to extract) oil reserves
- \$850bn in reserves

#### What on earth could go wrong?

- Oil dependence: high and rising
- Oil-driven volatility in revenue, debt and capital spending
- Reserves at risk as breakeven oil price rises
- Uncertain long-term oil-revenue trends
- Rising long-term spending pressure

#### Asset accumulation was ad hoc

 Spending and saving decisions not anchored by a rulebased framework



# Functions & Policy Frameworks for SWFs





#### Common functions of resource-based SWFs

The most disadvantageous lottery in the world – Adam Smith

#### Macroeconomic and fiscal stabilization

Key objective is decoupling macroeconomics from commodities

#### Saving

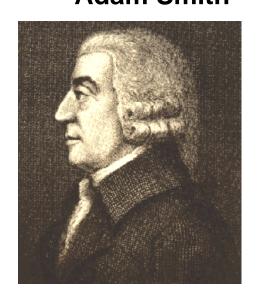
- Offsetting a depleting asset/income source
- Unmanageably large windfall
- Creating a source of income

#### **Preventing Dutch disease**

- Sectoral misallocation of resources
- Real-exchange rate appreciation
- Lose of non-resource export competitiveness

#### "Sovereign risk management" and revenue diversification

- From a sovereign portfolio perspective, financial assets bring:
  - Diversification, risk-reduction and return benefits



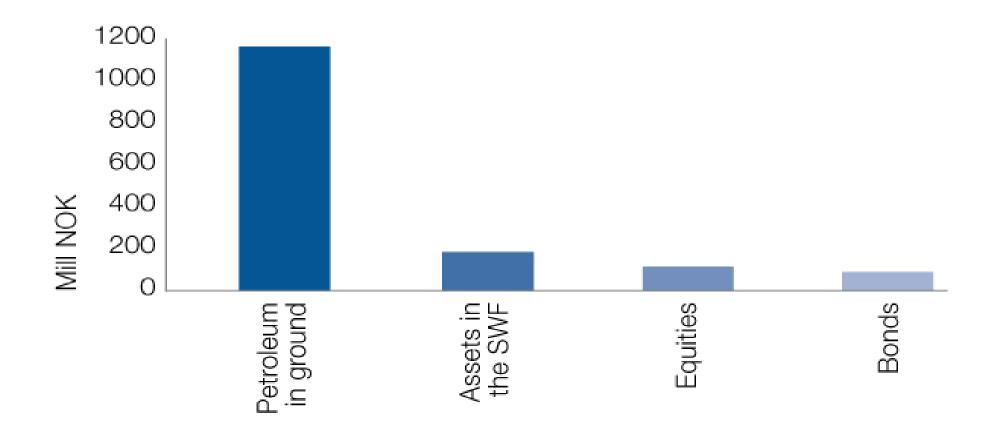


# The Norwegian case for saving: "oil to equities"





# The Norwegian case for saving: "oil to equities"





## Policy levers for a rule-based SWF

#### Saving rule: how much to transfer to SWF, and when?

- Transfer to SWF in general
- And potentially between stabilization fund (liquid assets) and savings/investment fund (risk assets)

#### Spending rule: how much to transfer from SWF, and when?

- Depends to fund's purpose(s):
  - Short-term stabilization;
  - Long-term "endowment" income; and/or
  - Locked-up savings for the future

#### **Investment policy**

- Active vs passive
- In-house vs outsourced
- Public vs private markets
- Asset allocation: risk-bearing capacity, investment beliefs
- Cost-aware implementation strategy
- Developmental or purely financial investment objectives



# Existing approaches to saving rules

#### Largely rule-of-thumb measures

- Fixed percentage (20%)
- Deviation from moving average (revenue or price)
- Reference-price (\$75) or range (\$50 \$70)

#### Rule-of-thumb measures useful as benchmarks, but have problems

- Specific problems (procyclicality, ex ante identification of reference price)
- General problem: these are "accumulation rules", but not fit-for-purpose for downturns

#### Sustainable financing of non-resource deficit

- Based on Permanent Income Hypothesis
  - IMF and Norway
- Cannot work in resource-dependent countries
  - Possibly inappropriate for poor countries that want to spend a great share of resource revenues on infrastructure



# A fiscal rule for revenue allocation with resourcebased SWFs

#### Based on CID and Ricardo Hausmann's work for resource-rich governments

- Colombia, Albania and Kazakhstan
- Interest from large Middle East funds and Alaska

# Model quantifies critical policy choices around the use volatile and finite resource revenues

- Finding a balance between three major objectives:
  - spending, stabilization and saving

#### Model is very flexible to different contexts and country needs

- Different revenue scenarios, assumptions and shocks
- Different assumed SWF returns and volatilities
- Spending rates
- Inter-temporal dynamics: spending now versus the future



#### Intuitive overview

#### Assume that spending is not based on (volatile) annual resource revenues

- Spending and revenue are "decoupled"
- Key departure: SWF funding not post-budget rather, resource revenues flow first to the SWF, then to the budget

#### Rather, spending is anchored on:

- a fixed percentage of previous year,
- a transfer from Stabilization and
- A Saving/Income Fund

#### This is captured in a simple spending rule

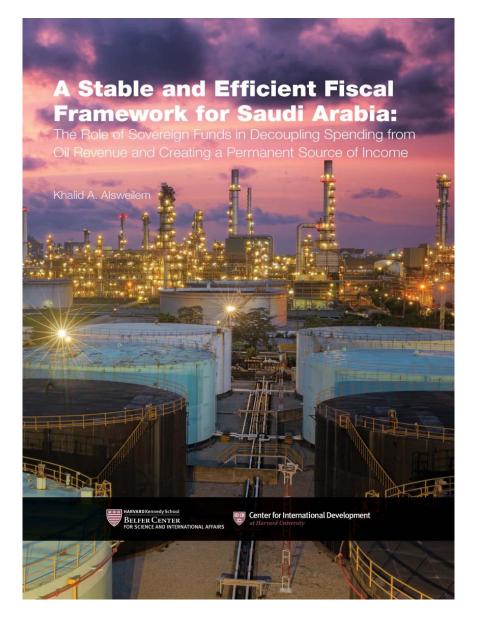
$$T_{t} = \alpha T S_{t-1} + \beta S_{t-1} + \delta E_{t-1}$$

#### Flexibility with respect to different assumptions and policy needs

- Different revenue scenarios, assumptions and shocks
- Different assumed SWF returns and volatilities
- Dynamics: spending now versus the future (via parameter choices)



# Perspectives & Lessons From Saudi Arabia



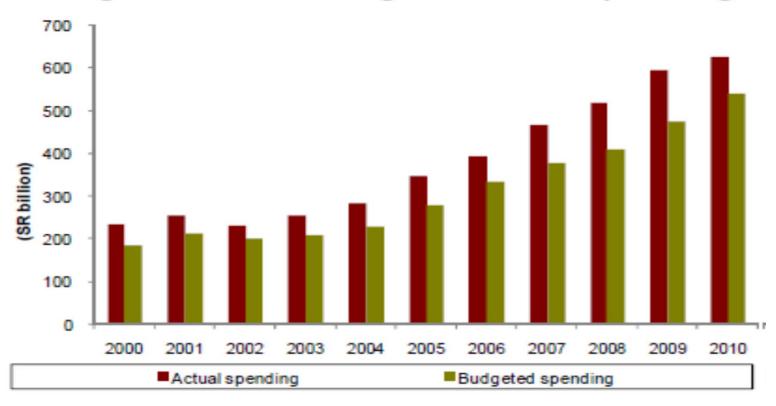


COUNTRY	ESTIMATED OIL PRICE REQUIRED TO BALANCE 2015 BUDGET
Norway	\$40
Kuwait	\$54
Abu Dhabi	\$55
Russia	\$105
Saudi Arabia	\$106
Nigeria	\$122
Iran	\$131
Algeria	\$131
Venezuela	\$160

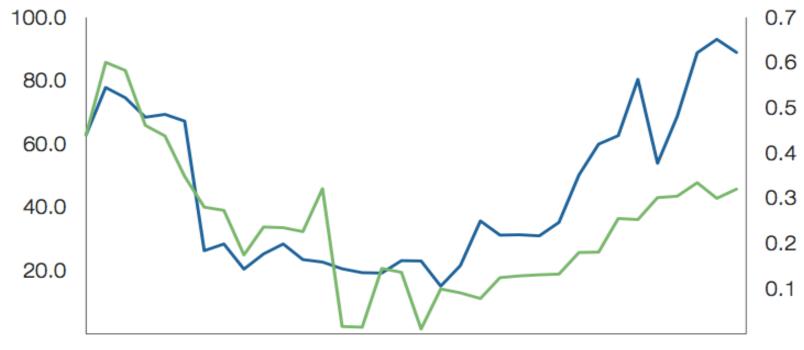
Sources: International Monetary Fund (2014b), except for Nigeria, Russia and Venezuela (Deutsche Bank, 2014) and Norway (Fitch Ratings, 2014).



#### Budgeted and actual government spending



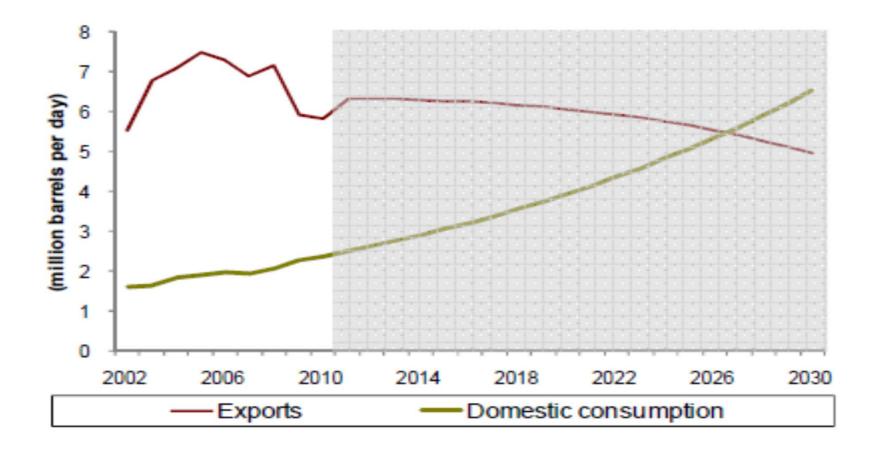




1980 1983 1986 1989 1992 1995 1998 2001 2004 2007 2010 2013

- Real oil price (Arabian light per barrel, lhs)
- Capital spending/total spending (rhs)



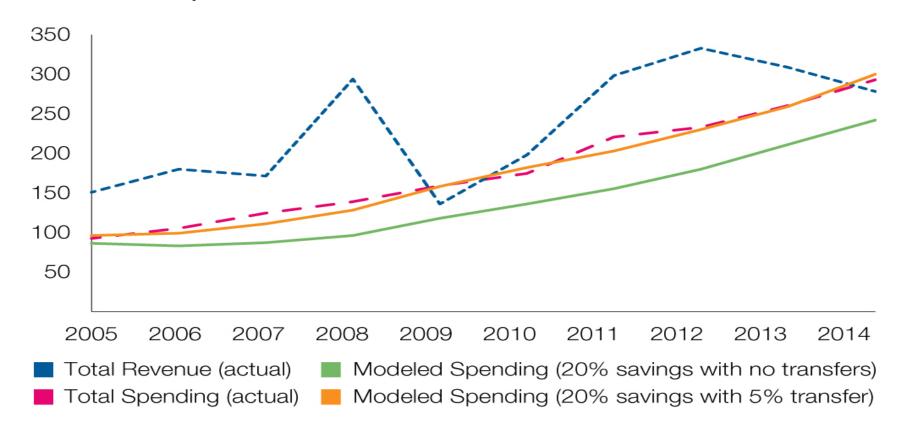




# **Application: Saudi Arabia**

#### **Modelling various scenarios**

- Counterfactual based on earlier reforms
- Implementing reforms in 2015
- The cost of delayed reforms





## Policy recommendations: Saudi Arabia

#### **Establishment of savings and spending rule**

- Under the jurisdiction of the Supreme Economic Council
- Modelled the impact of specific fiscal rules on Saudi government finances
  - Key message: don't delay further...delays are costly (have already been costly)

#### Proposed the formalisation of two sovereign funds

- Stabilisation Fund: with \$250bn in initial capital
- Saudi Future Generations Fund: with \$500bn in initial capital

#### Suggested governance arrangements for both funds

- Stabilisation to remain with SAMA (central bank), reporting to MoF
- Future Generations Fund to be managed by new entity, with:
  - Governing Council: Supreme Economic Council
  - Board of Directors: independent, fixed-term appointments
  - Management authority: led by Senior Executive



# The Role of SWFs in Development & Diversification





#### The issue of domestic investments

# Note the original SWF model was about taking resource revenue out of the domestic economic system

- Institutional capacity constraints in attempts to scale up domestic investment
- Dutch disease
- Economic bottlenecks
- Political economy

#### Poor countries are developing the "sovereign development fund" model

Infrastructure and power

#### Richer countries have "strategic investment funds"

Strategic sectors, technology, co-investments

#### The emergence of hybrid models with multiple structures/objectives

- Stabilisation
- Savings/Income generation
- Domestic investment



# Why do some countries grow?

- Classical factor-driven convergence: Labour and capital have high returns and drive convergence ("catch up" growth) due to their scarcity
- Institutions: Countries grow because of strong, democratic institutions: rule of law, broadbased participation and lack of corruption
- Geography and natural resources: Countries grow (or don't) because of geographical positioning – access to trading routes, fertile land etc. - and natural resource endowment
- Human capital: Education and health of nation's population drives productive capacity and therefore growth trajectories
- Exports and production: What your country can and does produce is the most significant element to growth



# Economic complexity: the role and potential of productive knowledge

Three fundamental premises of Economic Complexity theory

- 1. 'Productive knowledge' is the secret to economic growth: Countries that have the knowledge to produce and export more types of goods have a higher likelihood to grow.
- 2. Economic evolution is sequential: Economies should enter industries that require similar capabilities as they currently have "jumping to the nearest trees"
- Complexity drives level and pace of growth: The 'complexity' of an economy will drive GDP per capita growth. If economies are more complex than their level of growth, we should expect long-term catch up

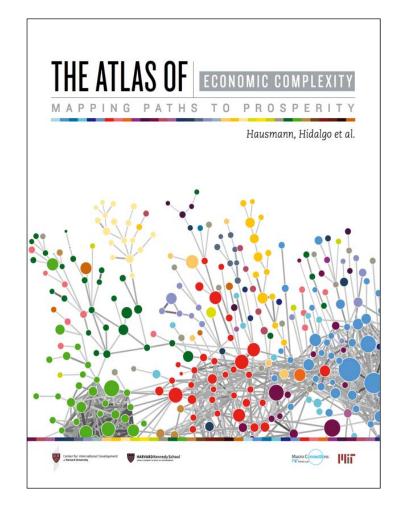


# Economic complexity: What is it and how is it measured?

**Concept**: 'Economic complexity' is the total amount of productive knowledge in an economy. It is expressed by the composition of a country's productive output

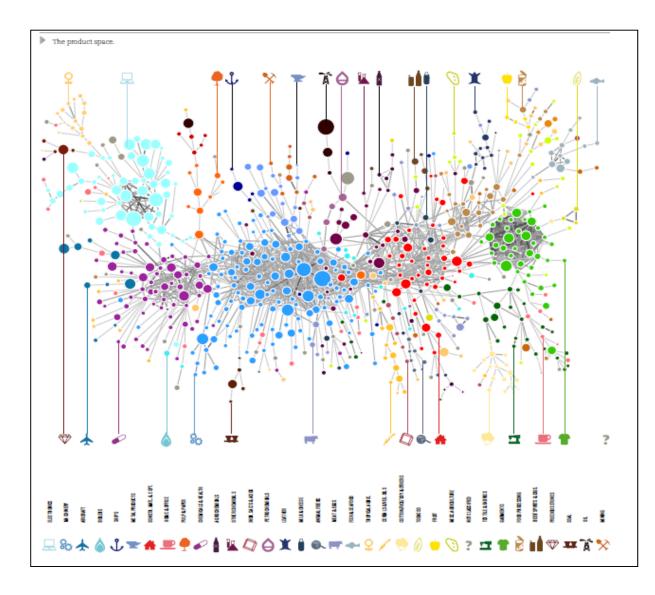
Measurement: diversity of a country's exports (how many different products), as well as their ubiquity (how many other countries also produce the same product)

Output: Harvard researchers release two indices: Economic Complexity Index (ranking of countries by their score) and Product Complexity Index - as well as an "Outlook Index".





# **Economic complexity: the Product Space**



# Product Space portrays "clusters" of products likely to be co-exported

 Products that are tightly connected share most of the requisite capabilities

# Having what it takes to make one product makes it easier to move to a connected one

- Automobiles => airplanes
- Jumping to the nearest tree

# Notice where oil is: far away from other products

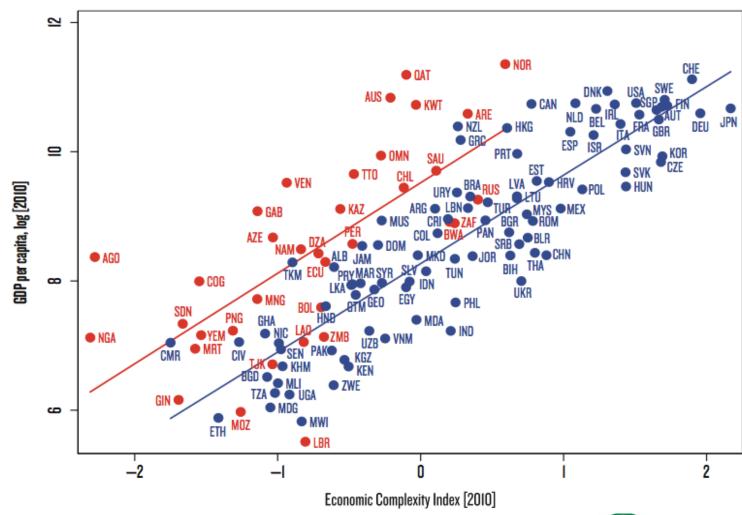
- Not a complex product
- Not well connected to other products



# Economic complexity: explaining wealth

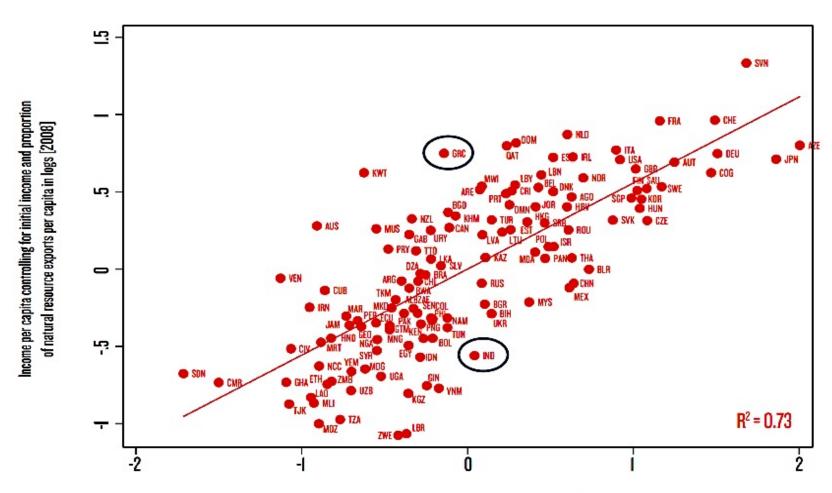
#### **Economic Complexity Index correlates strongly with income per capita**

- resource-driven
- non-resource-driven





# **Economic complexity: predicting growth**



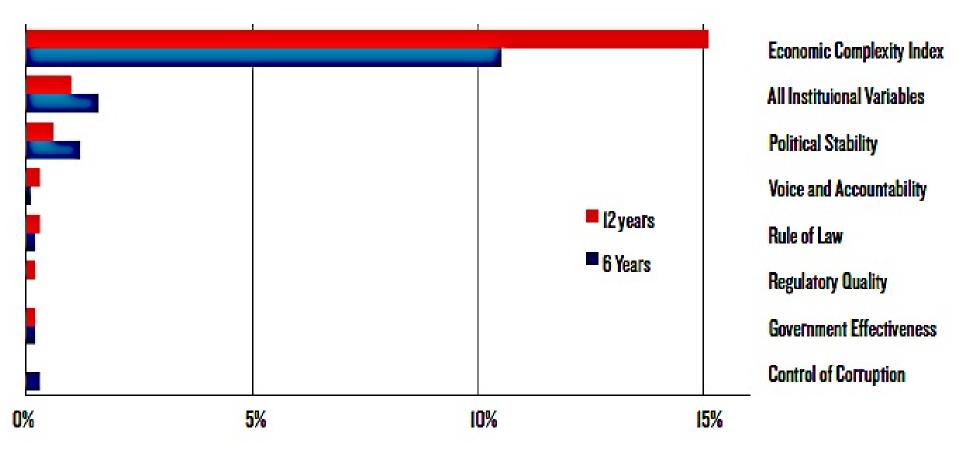
Economic Complexity Index controlling for initial income and proportion of natural resource exports per capita in logs [2008]



## Economic complexity: explanatory power

Economic Complexity captures more growth-relevant information that other measures:

- 7x more explanatory power on variance of growth compared to 'Institutional Variables'
- 5x more compared to the World Economic Forum Competitiveness Ranking





# **Economic complexity: implications for Africa**

8 out of the 10 expected fastest growing countries from 2010-2020 are in sub-Saharan Africa:

- Uganda, Kenya, Tanzania, Zimbabwe, Madagascar, Senegal, Malawi and Zambia
- South Africa and Nigeria, two of Africa's largest economies, are expected to grow 3.8% and 3.7% respectively from 2010-2020

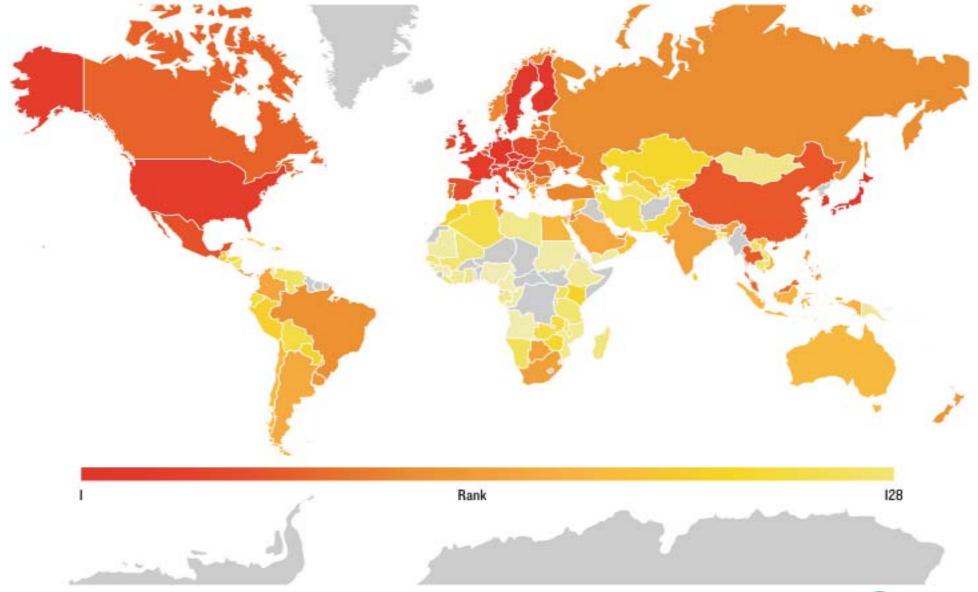
African economies typically have low levels of Economic Complexity

But also not taking advantages of existing "productive capabilities"

Together, these two factors lead to expectation of high GDP per capita growth



# **Economic complexity: predicting growth**





#### RANKING 4. EXPECTED GDP GROWTH TO 2020

**GDP GROWTH** 

2000-2010

RANK INCOME

2010 [USD]

INCOME

2010 [USD]

2.140

1.224

4,433

394

2.873

2,952

4,614

10,050

94

106

74

125

87

85

70

46

1.6%

0.9%

0.3%

2.2%

2.5%

0.9%

0.4%

1.0%

EXPECTED

**GDP GROWTH** 

2010-2020

ISO

CODE

PHL

VNM

CHIN

MOZ

GTM

IDN

THA

TUR

5.0%

4.7%

4.6%

4.5%

4.5%

4.4%

4.3%

4.3%

EXPECTED

**POPULATION** 

**GROWTH** 

REGION

East Asia and Pacific

East Asia and Pacific

East Asia and Pacific

Sub-Saharan Africa

East Asia and Pacific

East Asia and Pacific

Latin America and the Caribbean

Eastern Europe and Central Asia

REGIONAL RANK

EXPECTED GOP

**GROWTH** 

1/16

2/16

3/16

10/26

1/21

4/16

5/16

1/27

**Philippines** 

Mozambique

Guatemala

Indonesia

Thailand

Turkey

Vietnam

China

COUNTRY NAME

RANK

EXPECTED GOP

GROWTH

13

14

15

16

17

18

19

20

1/4	India	IND	7.0%	7.4%	101	1,375	1.3%	South Asia
1/26	Malawi	MWI	6.4%	4.7%	127	339	3.3%	Sub-Saharan Africa
2/26	Tanzania	TZA	6.1%	7.0%	121	527	3.1%	Sub-Saharan Africa
3/26	Liberia	LBR	6.1%	7.0%	128	247	2.6%	Sub-Saharan Africa
4/26	Kenya	KEN	6.0%	4.1%	117	795	2.6%	Sub-Saharan Africa
5/26	Uganda	UGA	5.8%	7.4%	122	515	3.1%	Sub-Saharan Africa
6/26	Madagascar	MDG	5.5%	2.6%	124	421	2.8%	Sub-Saharan Africa
7/26	Zimbabwe	ZWE	5.2%	-4.9%	120	595	2.1%	Sub-Saharan Africa
8/26	Mali	MLI	5.1%	5.7%	119	613	2.9%	Sub-Saharan Africa
9/26	Zambia	ZMB	5.1%	5.6%	104	1,253	3.2%	Sub-Saharan Africa
1/16	Egypt, Arab Rep.	EGY	5.0%	4.8%	90	2,698	1.6%	Middle East and North Africa
2/4	Pakistan	PAK	5.0%	4.6%	113	1,019	1.7%	South Asia
	1/26 2/26 3/26 4/26 5/26 6/26 7/26 8/26 9/26	I/26       Malawi         2/26       Tanzania         3/26       Liberia         4/26       Kenya         5/26       Uganda         6/26       Madagascar         7/26       Zimbabwe         8/26       Mali         9/26       Zambia         1/16       Egypt, Arab Rep.	1/26       Malawi       MWI         2/26       Tanzania       TZA         3/26       Liberia       LBR         4/26       Kenya       KEN         5/26       Uganda       UGA         6/26       Madagascar       MDG         7/26       Zimbabwe       ZWE         8/26       Mali       MLI         9/26       Zambia       ZMB         1/16       Egypt, Arab Rep.       EGY	I/26       Malawi       MWI       6.4%         2/26       Tanzania       TZA       6.1%         3/26       Liberia       LBR       6.1%         4/26       Kenya       KEN       6.0%         5/26       Uganda       UGA       5.8%         6/26       Madagascar       MDG       5.5%         7/26       Zimbabwe       ZWE       5.2%         8/26       Mali       MLI       5.1%         9/26       Zambia       ZMB       5.1%         1/16       Egypt, Arab Rep.       EGY       5.0%	I/26       Malawi       MWI       6.4%       4.7%         2/26       Tanzania       TZA       6.1%       7.0%         3/26       Liberia       LBR       6.1%       7.0%         4/26       Kenya       KEN       6.0%       4.1%         5/26       Uganda       UGA       5.8%       7.4%         6/26       Madagascar       MDG       5.5%       2.6%         7/26       Zimbabwe       ZWE       5.2%       -4.9%         8/26       Mali       MLI       5.1%       5.7%         9/26       Zambia       ZMB       5.1%       5.6%         1/16       Egypt, Arab Rep.       EGY       5.0%       4.8%	I/26         Malawi         MWI         6.4%         4.7%         127           2/26         Tanzania         TZA         6.1%         7.0%         121           3/26         Liberia         LBR         6.1%         7.0%         128           4/26         Kenya         KEN         6.0%         4.1%         117           5/26         Uganda         UGA         5.8%         7.4%         122           6/26         Madagascar         MDG         5.5%         2.6%         124           7/26         Zimbabwe         ZWE         5.2%         -4.9%         120           8/26         Mali         MLI         5.1%         5.7%         119           9/26         Zambia         ZMB         5.1%         5.6%         104           1/16         Egypt, Arab Rep.         EGY         5.0%         4.8%         90	I/26         Malawi         MWI         6.4%         4.7%         127         339           2/26         Tanzania         TZA         6.1%         7.0%         121         527           3/26         Liberia         LBR         6.1%         7.0%         128         247           4/26         Kenya         KEN         6.0%         4.1%         II7         795           5/26         Uganda         UGA         5.8%         7.4%         122         515           6/26         Madagascar         MDG         5.5%         2.6%         124         421           7/26         Zimbabwe         ZWE         5.2%         -4.9%         120         595           8/26         Mali         MLI         5.1%         5.7%         II9         613           9/26         Zambia         ZMB         5.1%         5.6%         104         1,253           1/16         Egypt, Arab Rep.         EGY         5.0%         4.8%         90         2,698	U/26         Malawi         MIWI         6.4%         4.7%         127         339         3.3%           2/26         Tanzania         TZA         6.1%         7.0%         121         527         3.1%           3/26         Liberia         LBR         6.1%         7.0%         128         247         2.6%           4/26         Kenya         KEN         6.0%         4.1%         117         795         2.6%           5/26         Uganda         UGA         5.8%         7.4%         122         515         3.1%           6/26         Madagascar         MDG         5.5%         2.6%         124         421         2.8%           7/26         Zimbabwe         ZWE         5.2%         -4.9%         120         595         2.1%           8/26         Mali         MLI         5.1%         5.7%         119         613         2.9%           9/26         Zambia         ZMB         5.1%         5.6%         104         1,253         3.2%           1/16         Egypt, Arab Rep.         EGY         5.0%         4.8%         90         2,698         1.6%

4.8%

7.3%

10.5%

7.8%

3.3%

5.2%

4.3%

3.9%

# Looking at domestic investment opportunities though the Economic Complexity lens

# Economic Complexity analysis provides guidance on "adjacent industries" that drive greater complexity and hence growth

- Which trees are closest?
- Note that emphasis unlikely to be around commodities cluster

#### Look for products that are "closest"

Make use fo the same productive capabilities you current possess

#### Look for products that give higherst "complexity gains"

Aquire productive capabilities that are associated with highly connected production chains

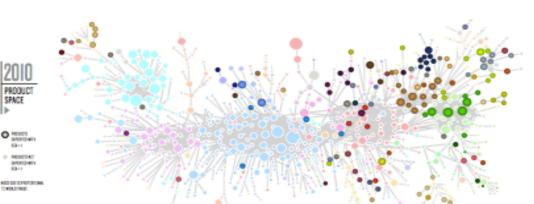
Remember, growth and complexity gains will be piecemeal and incremental

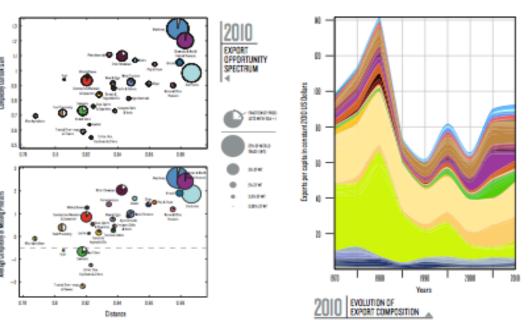


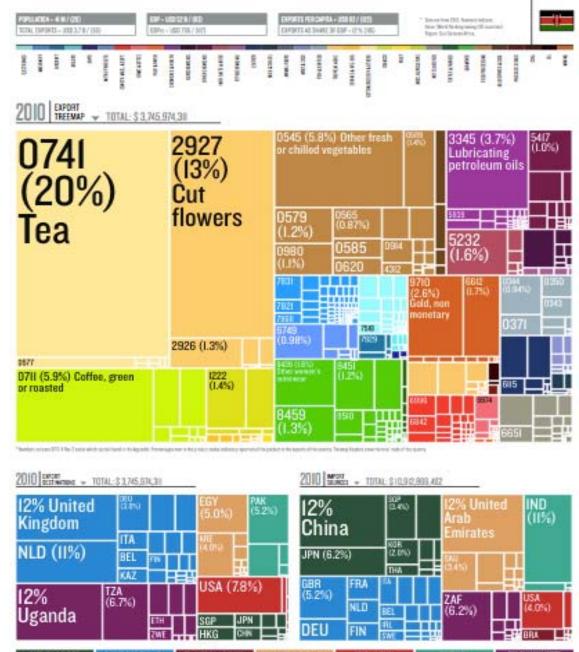
ECONOMIC COMPLEXITY INDEX [2010] - -0.503 (85)

COMPLEXITY OUTLOOK INDEX [2010] - 0.272 (50)

EXPECTED GDP#: GROWTH \* + 3.4% (13)









# Challenges in domestic investment

#### Domestic investment subject to stability and sustainability contraints

- Procyclical public investment undermines efficacy
- Fiscal stability and solvency are critical
- Diversification of fiscal revenue
- Recurring costs associated with capital expenses (infrastructure)
- Dutch disease: scale up gradually

#### **Poltical issues**

- Establish governance that promotes avoidance of political pet projects
- Danger of prestige projects ("white elephants")
- Risk of "constitutent pleasing"

#### Finding the balance

- Look for suitable co-investment opportunities
- Be clear about criteria and processes
- Don't establish a parallel budget
- Balance saving, stabilization and domestic investment (nobody saying Africa should "send all its money abroad")



# Key messages

# SWFs are about creating stability and sustainability in the management of resource revenues

- Commodities (and revenues) are uncertain, volatile and unpredictable
- The absence of appropriate rules leads to procyclicality and short-termism
- Planning for the future should continue despite current commodity prices

#### The emergence of hybrid models:

- Stabilisation
- Savings/Income generation
- Domestic investment

However, domestic investment subject to stability and sustainability constraints and good governance

Oil-to-equities logic part of the case for savings and alternative source of wealth and income



# **Biography**



Malan Rietveld is the Director of the Investment Institute. His focus is on policies towards investment around the extractive industries, including resource-related infrastructure, foreign direct investment and the management of resource revenues. Previously, he worked in the Emerging Market Debt team at Investec Asset Management and was involved in the firm's advisory work with central banks and sovereign wealth funds. Prior to that he worked at Central Banking Publications and the Official Monetary and Financial Institutions Forum in London. He is the editor of three books on sovereign wealth funds: Sovereign Wealth Management (with Jennifer Johnson-Calari), *New Perspectives on Sovereign Asset Management and Sovereign Risk Management.* 

Malan holds an M.Sc in Economics from the University of Leuven and an M.Sc in Economic History from the London School of Economics. He is currently completing his PhD in Economics from the University of Stellenbosch on the topic of sovereign wealth funds. Malan is a Fellow at the Center for International Development at Harvard Kennedy School and a Fellow of the Columbia Center for Sustainable Investment at Columbia University.



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