



Oxford Policy Management

# Preparing for the boom

How much? When?

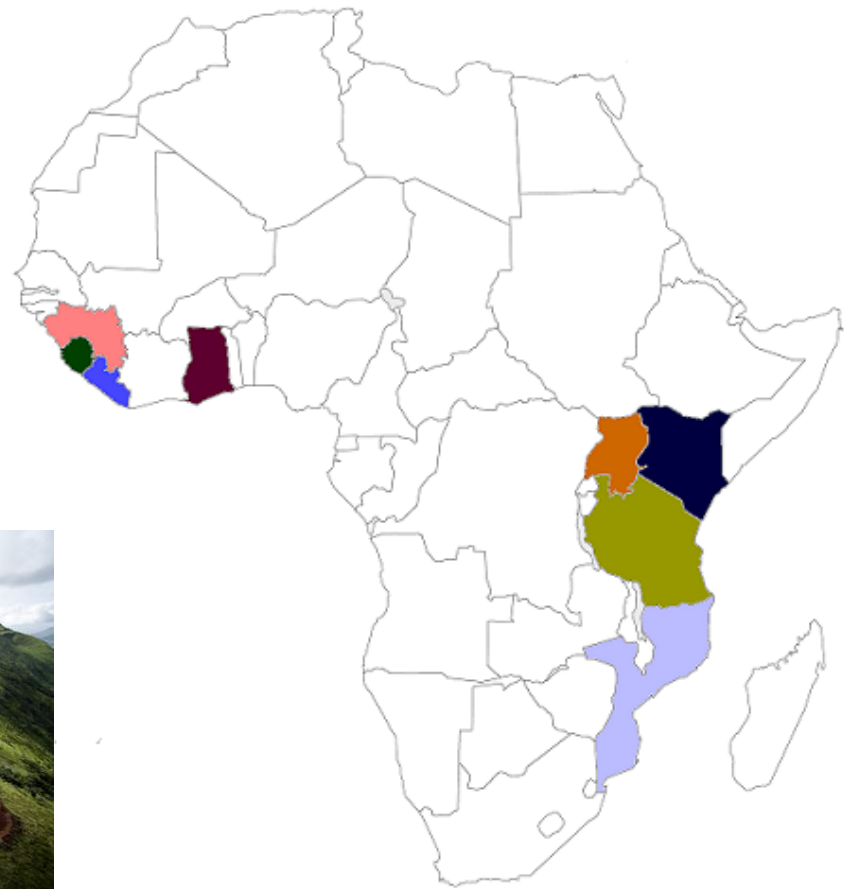
Mark Henstridge

June, 2014

# Outline

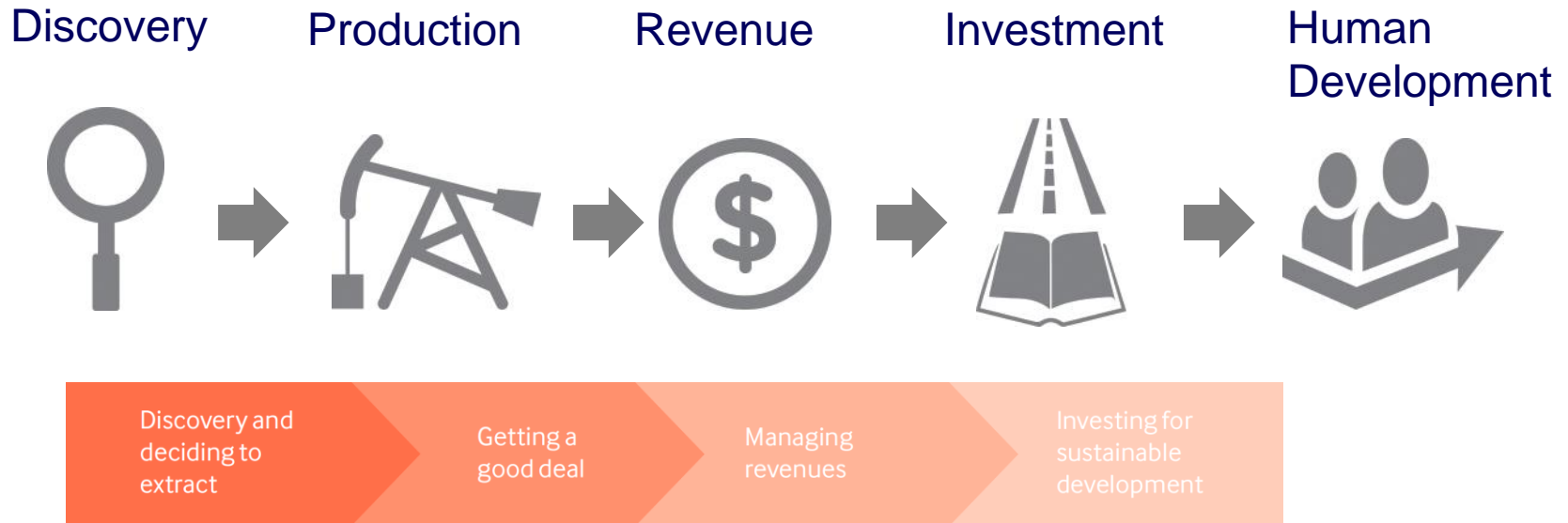


- Work in progress
  - Baseline
  - Project assumptions
  - Mapping to BoP & fiscal
- Immediate policy issues



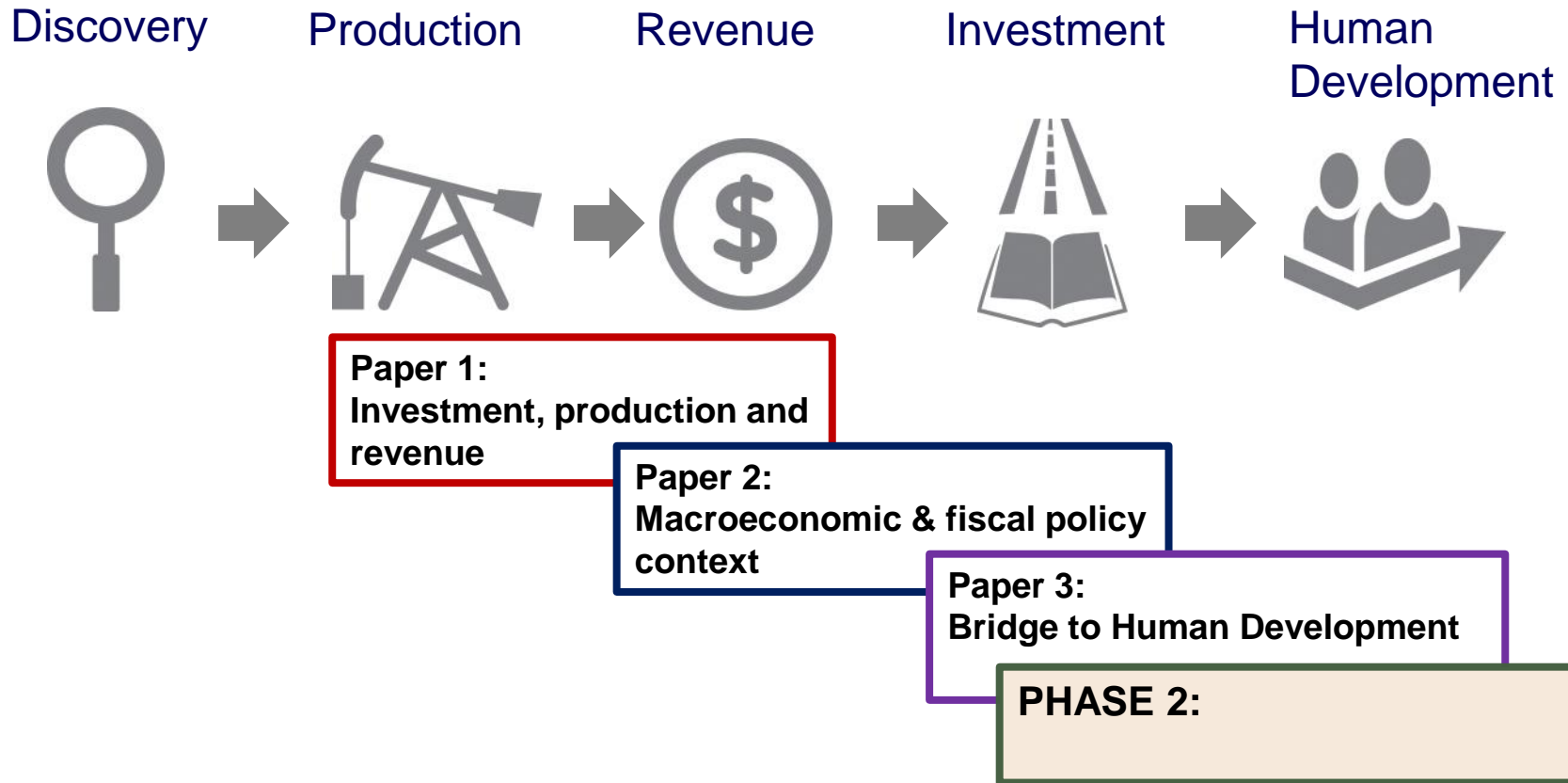


# Context: asset transformation





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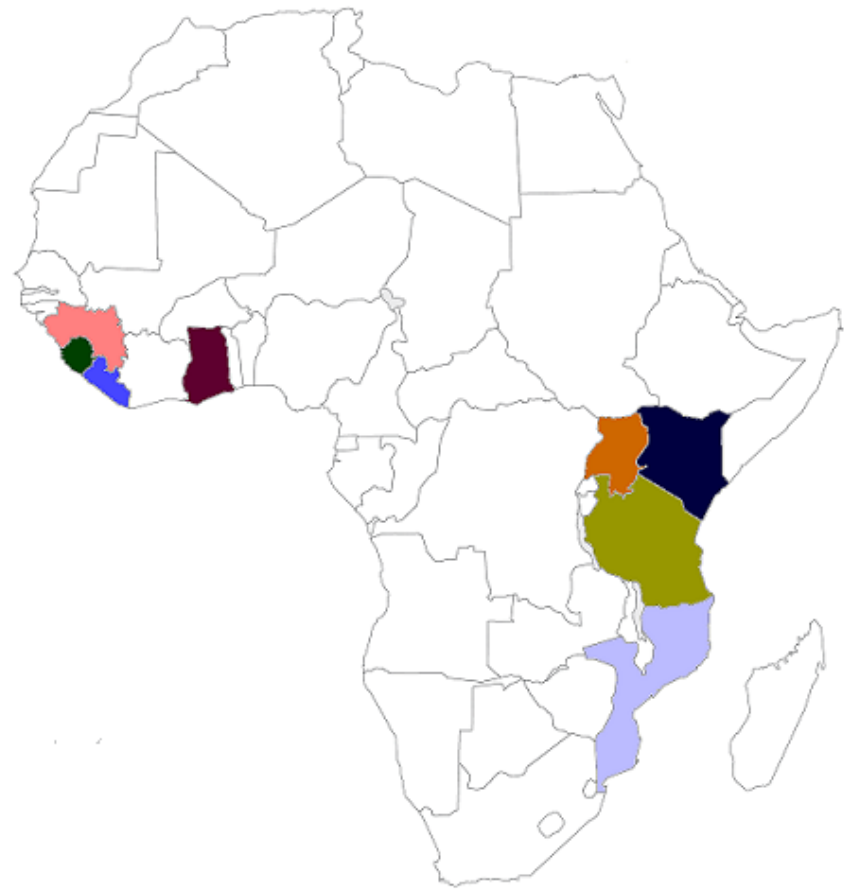




# Illustration: how much? when?

## Assumptions & projections:

- FDI & capital investment
- Production & export
- Operating costs & procurement
- Contract terms
- Revenue streams
  - Royalties
  - Fees & rentals
  - Production shares
  - Corporation tax
  - PAYE & sales- or value-added tax





# Illustrative framework

## Approach to projections:

1. Project finances
2. Economic baseline
3. Map project on to balance of payments and fiscal position
  - keeping monetary consistency.
4. Identify scale and timing of changes in 'resource envelope'
5. Identify short-term policy issues
6. Frame spending and other policy trade-offs for a stronger human development outcome

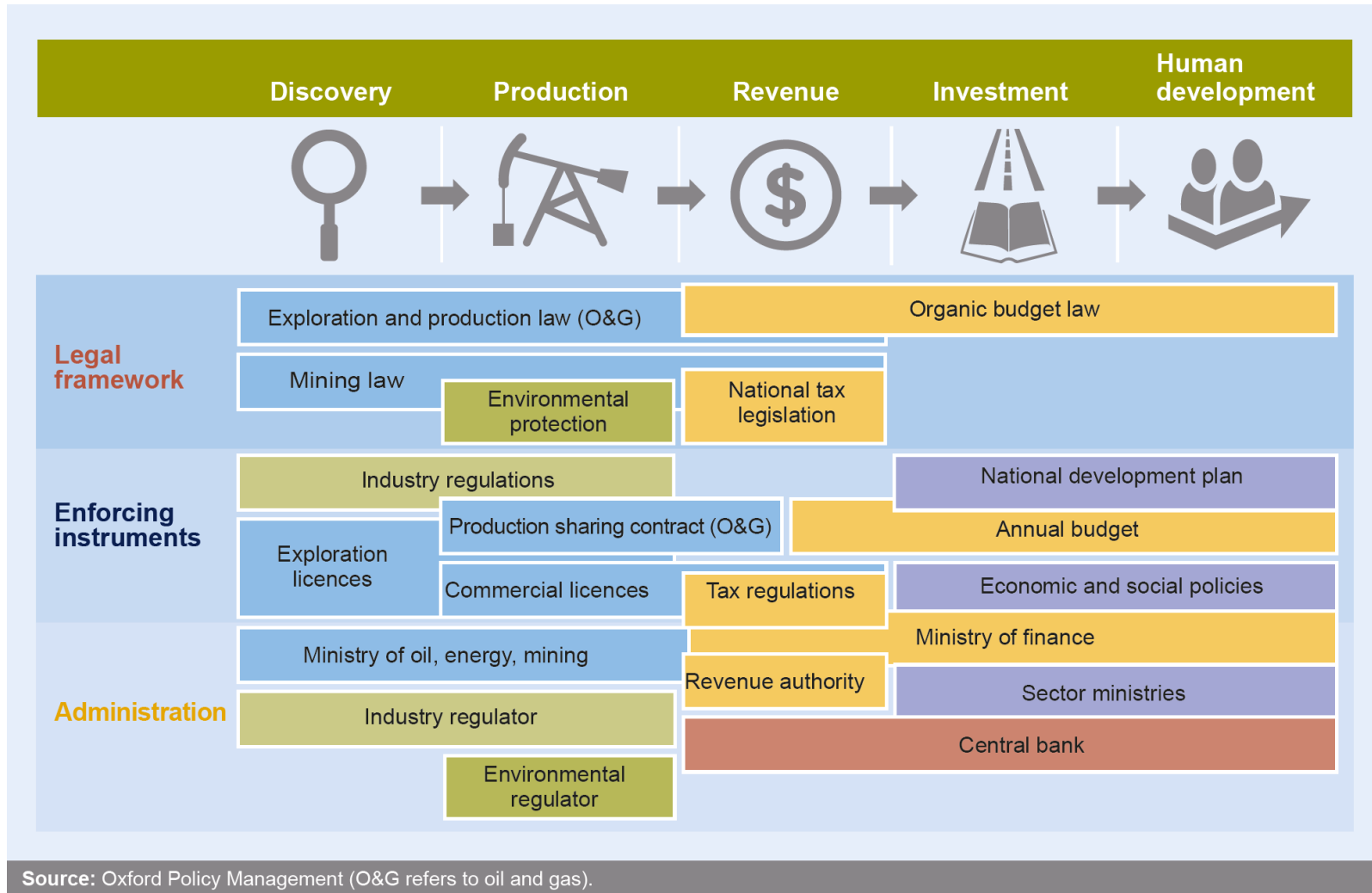
## Consistency in a financial programme:

- Changes in the balance of payments change foreign reserves ( $\Delta R$ )
- Changes in the public finances change domestic debt – subject to spending choices ( $\Delta NDA$ )
- Each has monetary ( $\Delta M$ ) implications:

$$\Delta M \equiv \Delta R + \Delta NDA$$



# Complexity: the 'authorising environment'



# Spending alternatives



## Impact per US\$ 1 revenue

		Consumption		Investment			Balance sheet	
	Resource revenue	Private consumption	Government consumption	Private capital stock	Public capital stock	Foreign assets	Private assets	Government assets
Tax cut or cash transfer	1	$c$	0	$1-c$	0	0	$1-c$	0
Public spending	1	0	$g$	0	$1-g$	0	0	$1-g$
Domestic lending/debt	1	$z$	0	$\gamma(1-z)$	0	$(1-\gamma)(1-z)$	$-z$	1
Foreign assets/SWF	1	0	0	0	0	1	0	1
Accounting identity	$R - C_p - C_g \equiv I_p + I_g + I_f \equiv A_p + A_g$							

Note:

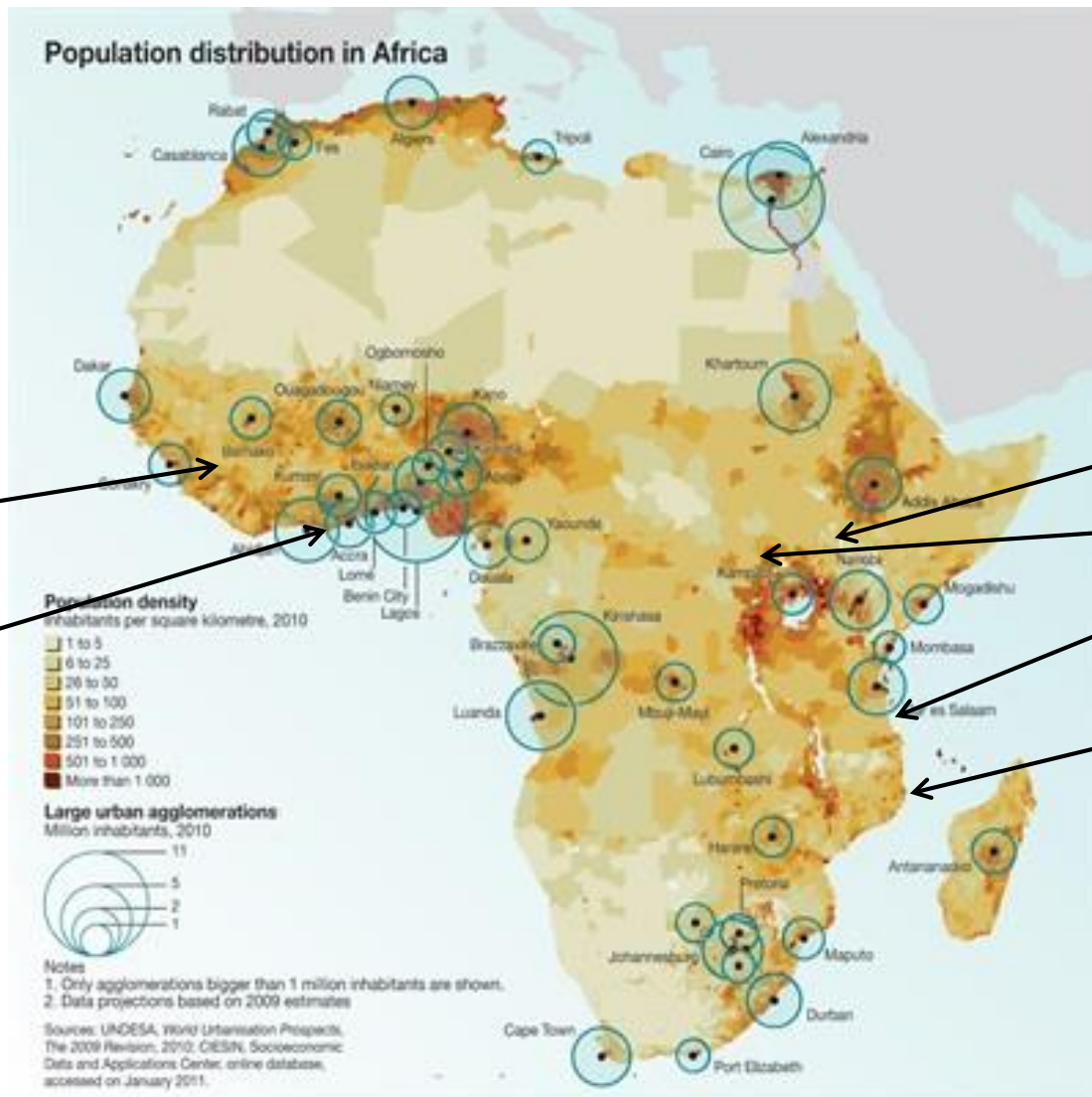
- $c$  = share of consumption from tax cut
- $g$  = share of consumption in government spending
- $z$  = share of consumption in private response to government debt reduction/leading
- $C$  = consumption,  $I$  = Investment,  $A$  = Change in assets
- Subscripts:  $p$  – private;  $g$  – government,  $f$  - foreign

Source: Collier, van der Ploeg, Spence and Venables (2009) 'Managing resource revenues in developing economies', OxCarre Research Paper 15, Oxford; IMF Staff Papers, 2010, 57, 1, 84-118, Washington, D.C.





# Jobs: spatial distribution



Simandou

Takoradi

Turkana

Hoima

Tanzania LNG

Mozambique LNG