

7th Annual
Smart Grids
& Clean Power
Conference
www.cir-strategy.com/
events

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GUIDING FUTURE INVESTMENTS FOR INFRASTRUCTURE AND SUSTAINABILITY GROWTH

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CITIES AS DRIVERS OF THE GLOBAL ECONOMY



Top 23 Mega-cities with just 1/20th world's population generate 14% global GDP

Metro-regions are **2%** of the world's surface and generate **80%** of the world's wealth

In the next 15 years

Largest 600 Cities - 2 billion people

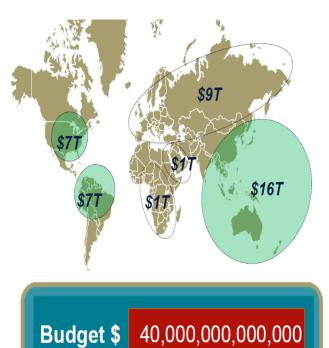
Will generate \$64 trillion



RE-THINKING GROWTH:

UNDERSTANDING THE GLOBAL CHALLENGE

























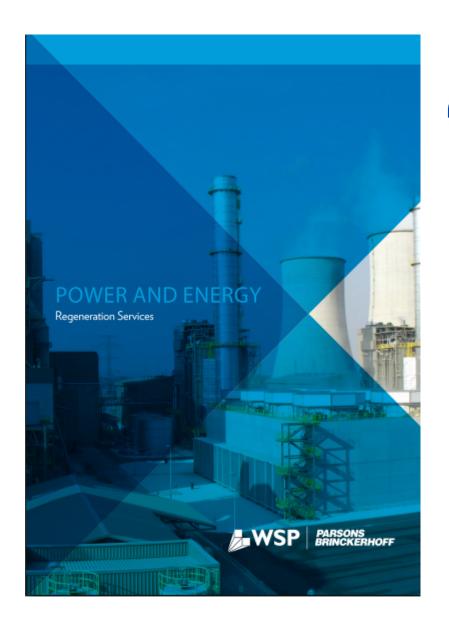








EMERGING ASSET



Re-lifting Assets

Even a power station due to closure has a significant value when you consider the large land footprint and existing fuel supply, cooling water and electrical connection infrastructure.

North Sea 'Power-Boats '

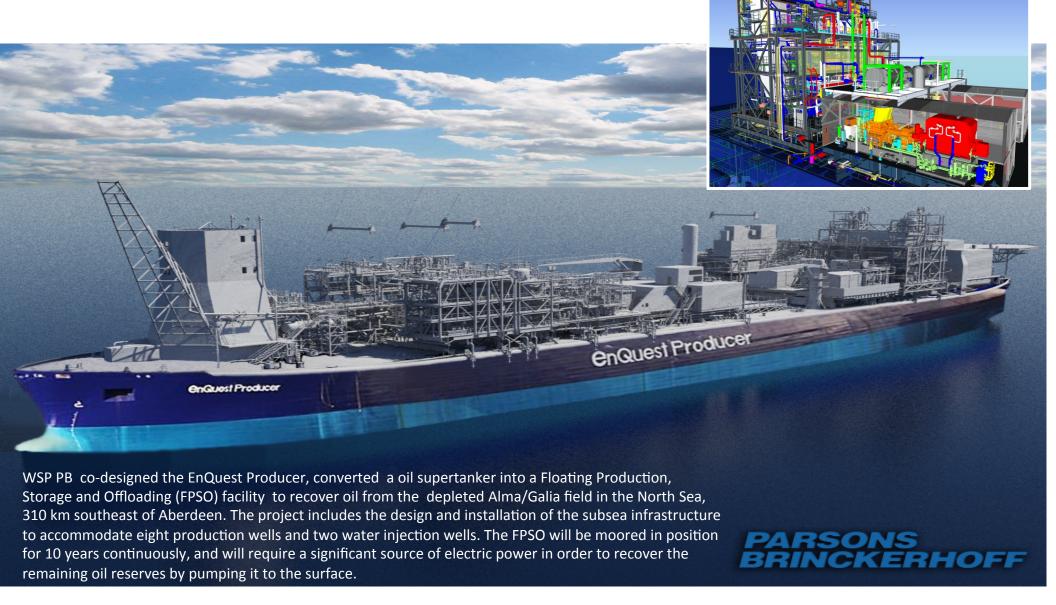
Ethiopian National Infrastructure Plan to support **Green Growth**

UK Electrical Networks **DS2030** national resilience + **Future Ready Review**

TOD – transport orientated design.



ENQUEST PRODUCER FPSO





TRANSPORT LED DEVELOPMENT

So how will London grow?

8.2 million 2011 10.1 million 2036

23% in 25 years

Densify City Fringe

Population Dispersal To Greater SE Region

New Settlements Eco-towns

Sub-urban Intensification

Urbanisation

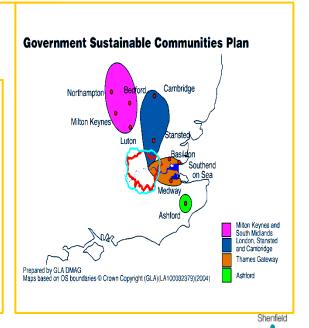
Town Centre Gardens

Land Release

Green belt Brownfield Industrial Land

Greater SE Additional Capacity

Brighton 110.000 100.000 Hastings + Eastbourne Canterbury + Dover 115,000 Chatham 100,000 Southend 100,000 Basildon 50,000 Reading + Slough 50.000 50.000 Luton Milton Keynes 50,000 Peterborough 90,000 Cambridge 15.000 65,000 **Ipswich Potential** 905,000



Brentwood

Harold Wood

Source: D. Bowie University of Westminster, Highbury Group

Projected Spend

£5.5bn Underground

£1bn Station £15bn CrossRail £6.5bn ThamesLink £14bn R3 Heathrow

£42bn



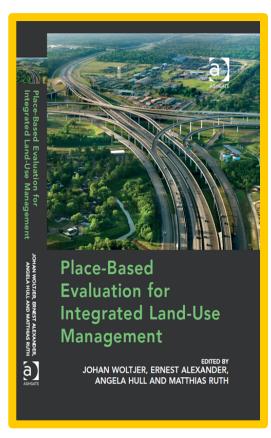


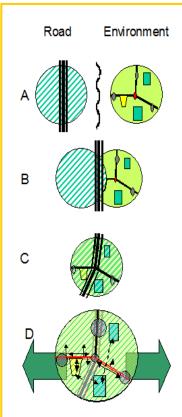
URBAN INFRASTRUCTURES RESEARCH CENTRE, UOW

The Five Case Model

Governed by HM Treasury Green Book

- 1) Strategic Case
- 2) Economic case
- 3) Financial Case
- 4) Commercial Case
- 5) Management Case





Research Focus

Wellbeing: understanding opportunity, choice, the value of infrastructure;

Resilience: resistance-adaptation-transformation, 'spirit', capacity, redundancy towards

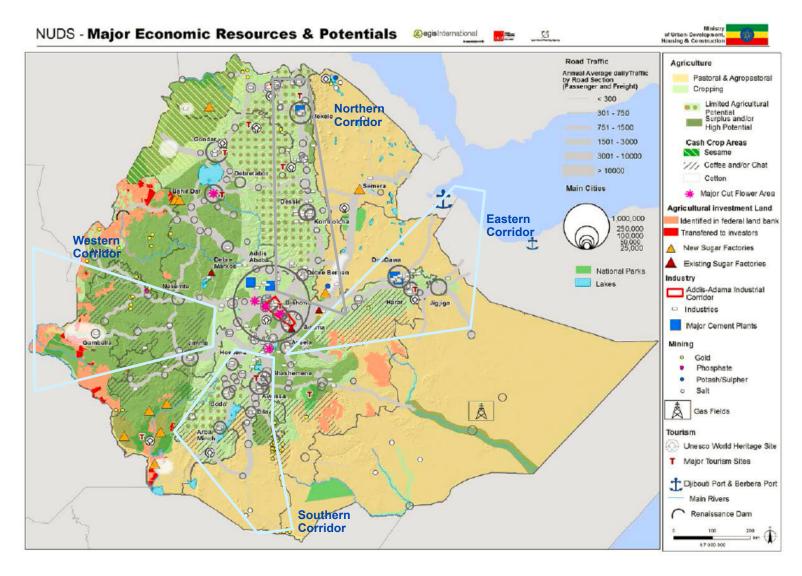
Place-based: Linking to the context in which processes of development take place: potential, (inter)local, causal

Strategic Design: Outcomes based 'Hard' and 'soft' design, institutional design at generic and inter-agency level.

Social Value Creation: job creation, community development



'GREEN GROWTH': STRATEGIC PLANNING







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