

dynamic cities project

design
planning
policy for a
changing world



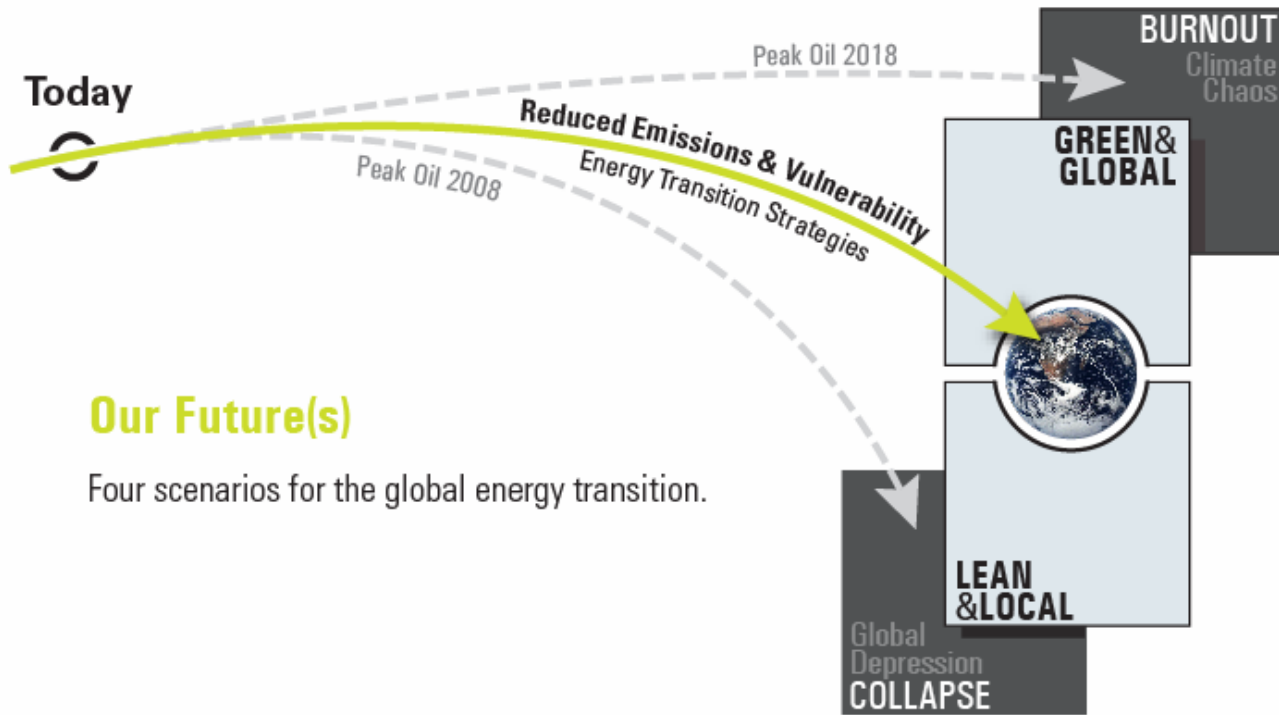
The Dynamic Cities Project

Timelines & Targets (v.2)

Updates to the DCP Depletion
Scenario for North America

May 14, 2007

Bryn Davidson
B.Sc. M.Arch LEED-AP
Executive Director



Our Future(s)

Four scenarios for the global energy transition.

From Scenarios to Action...

Creating a depletion model as a foundation
for proactive design, policy & planning.

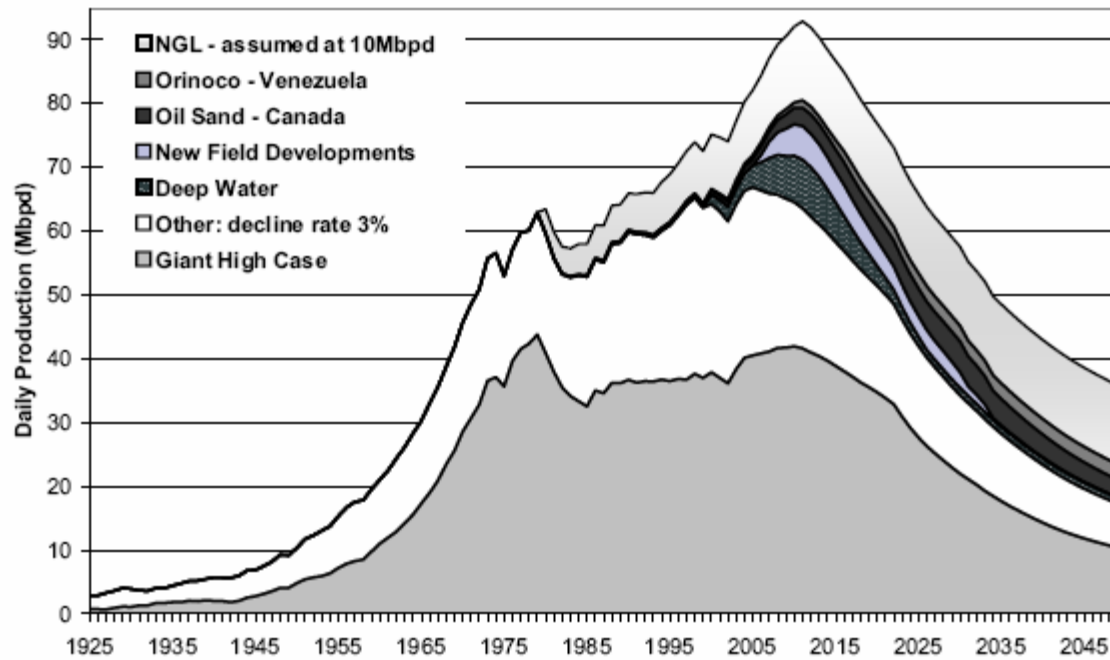
Fredrik Robelius

Giant Oil Fields – The Highway to Oil

Giant Oil Fields and Their Importance for Future Oil Production



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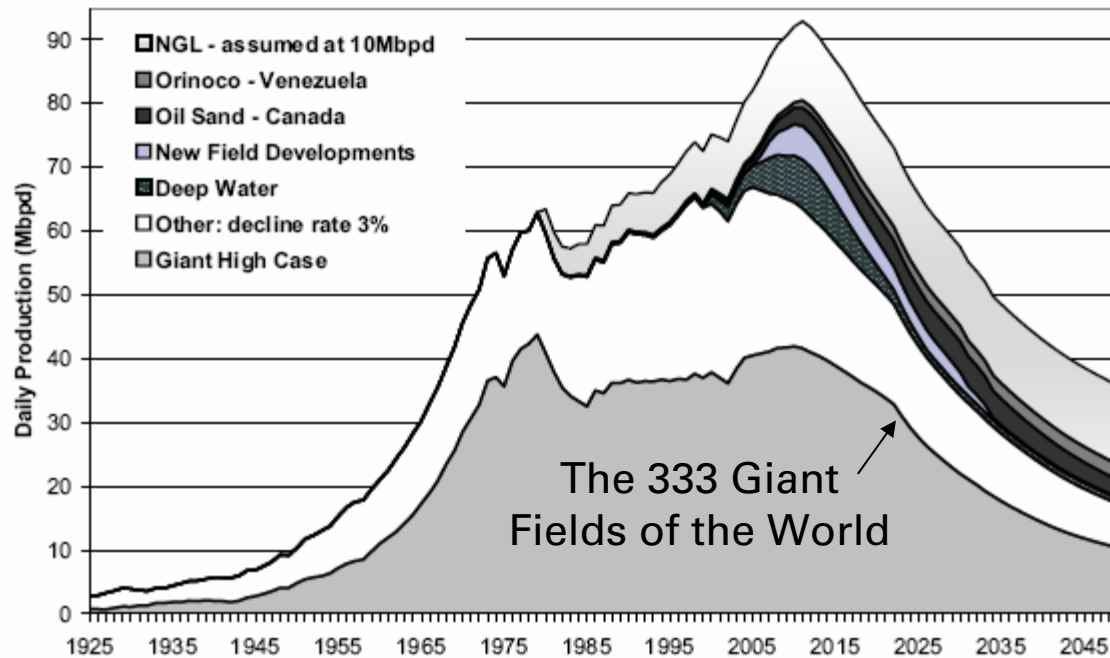
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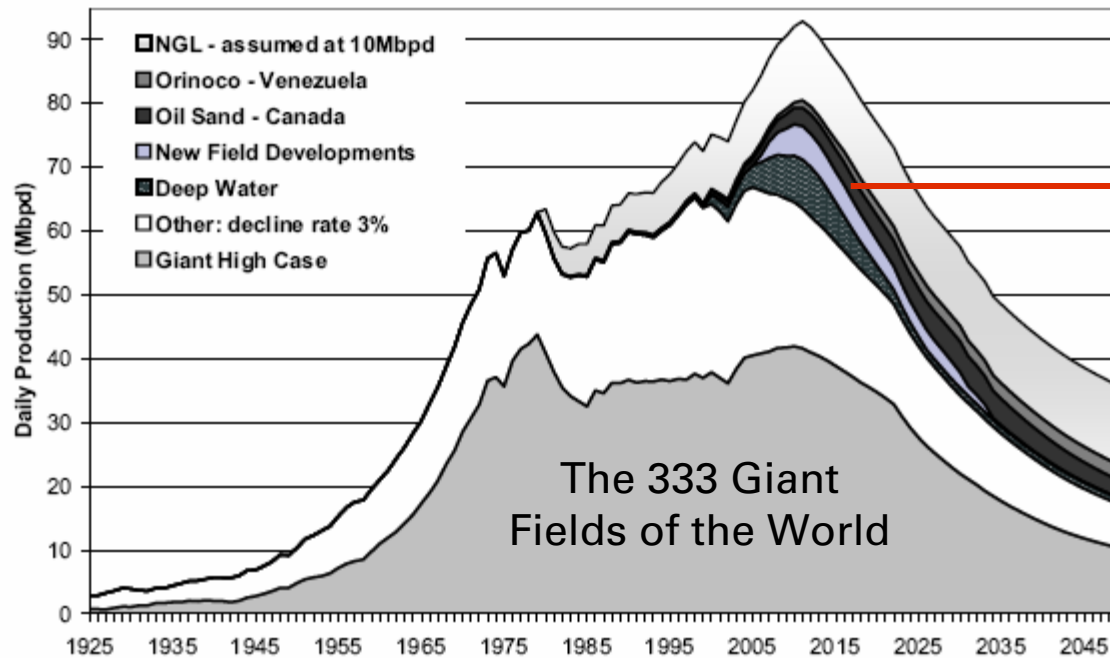
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Tar Sands
(Big Impact
Locally, but
Small Global
Contribution)

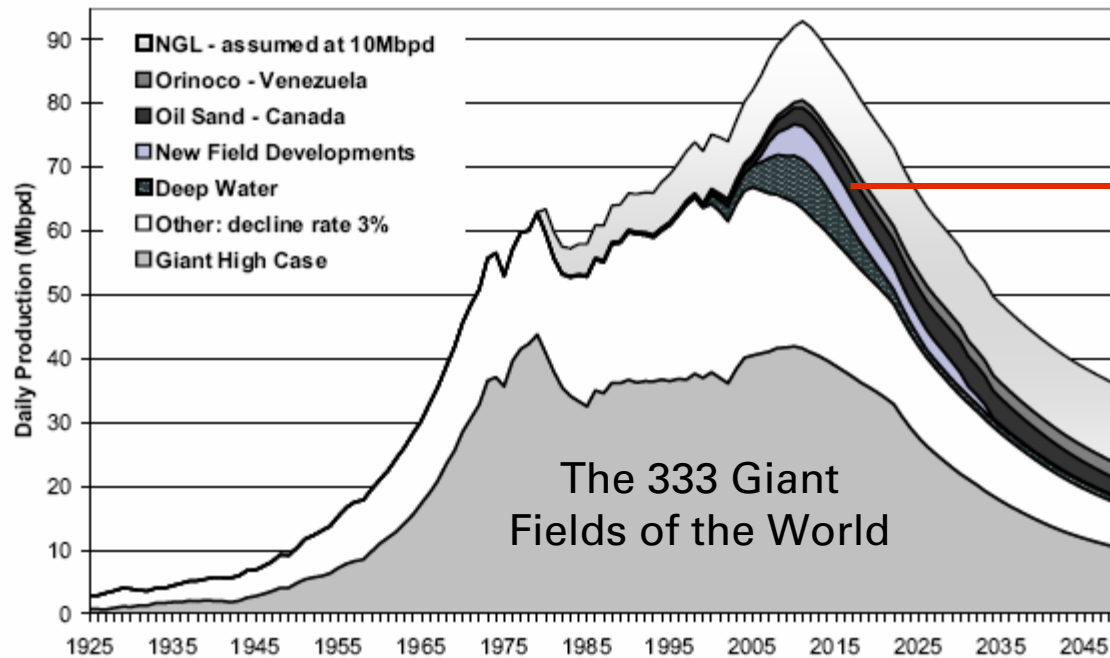
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Global Peaking: **Between 2008 and 2018**

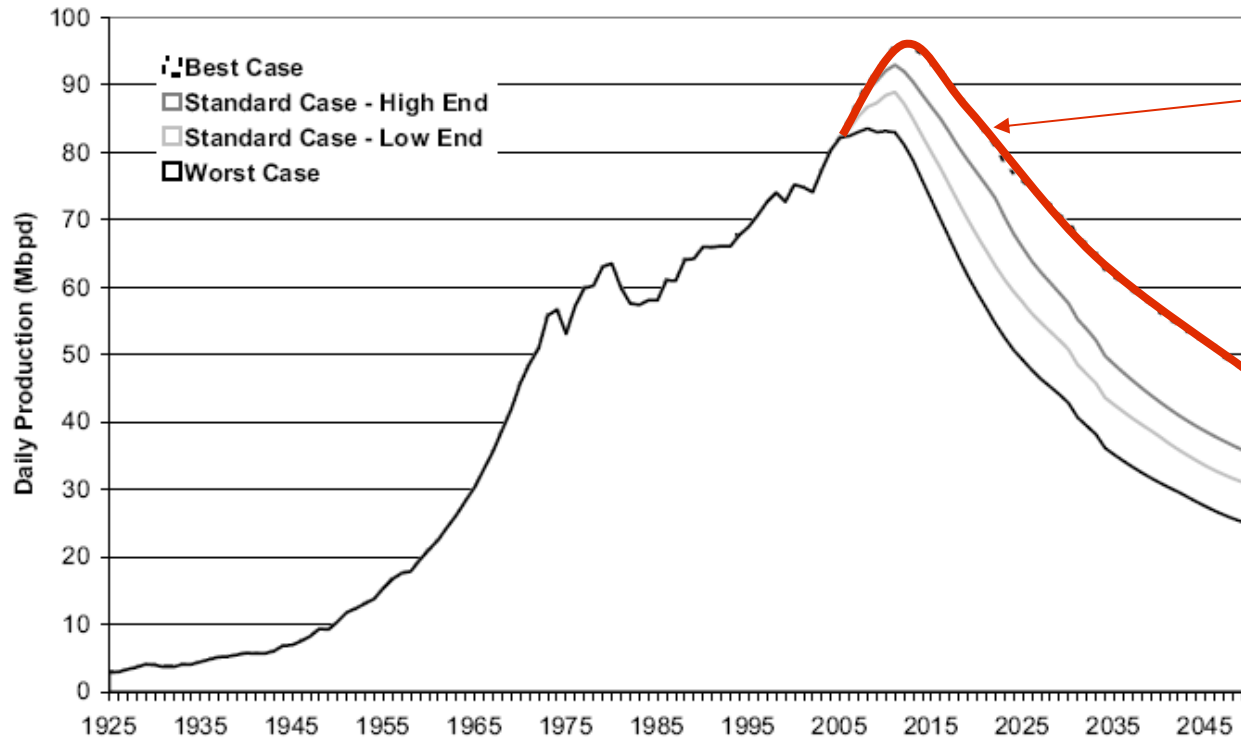
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**Global
Production:
High
Scenario**

Figure 9.4: Global liquids production, in million barrels per day (Mbpd), in the four different scenarios.

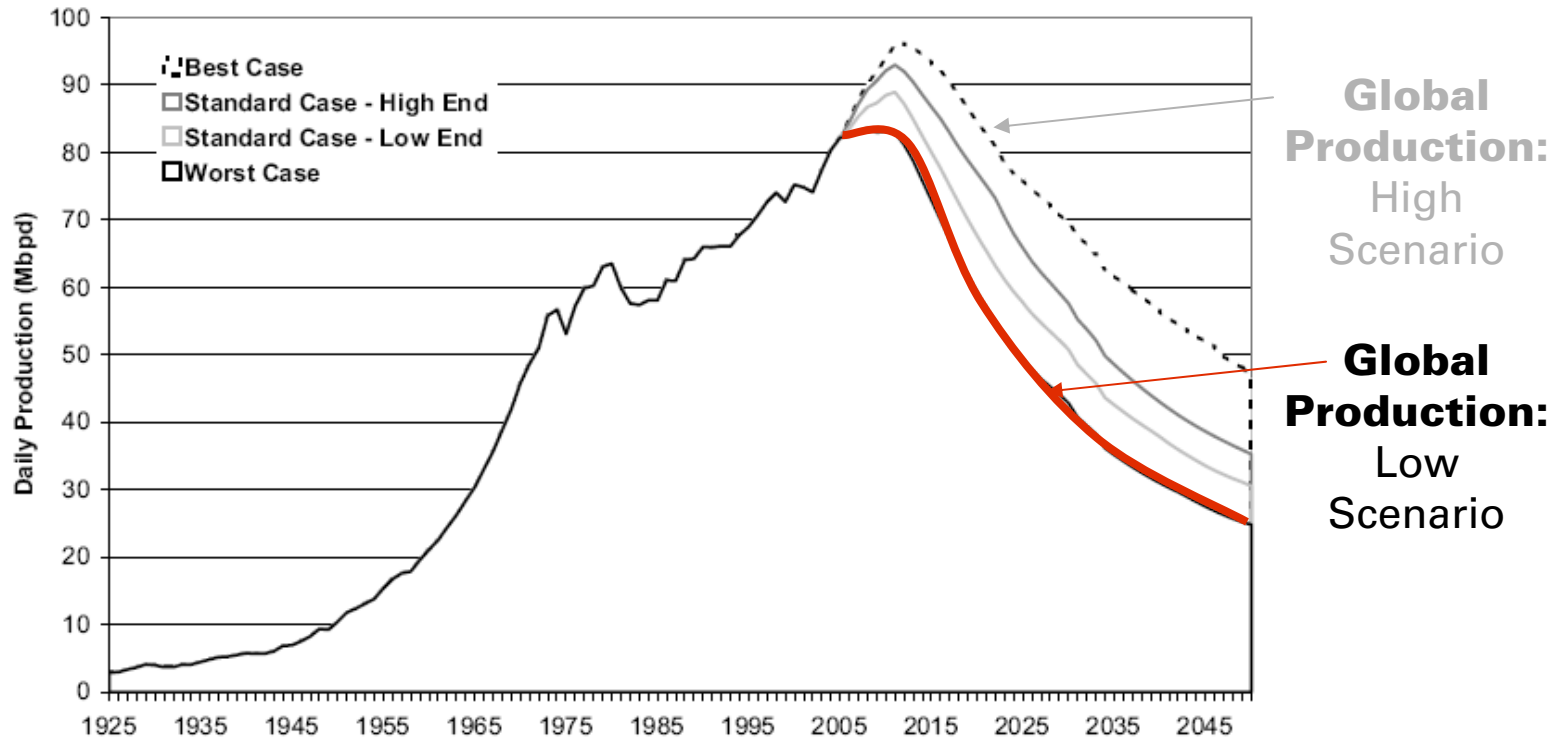
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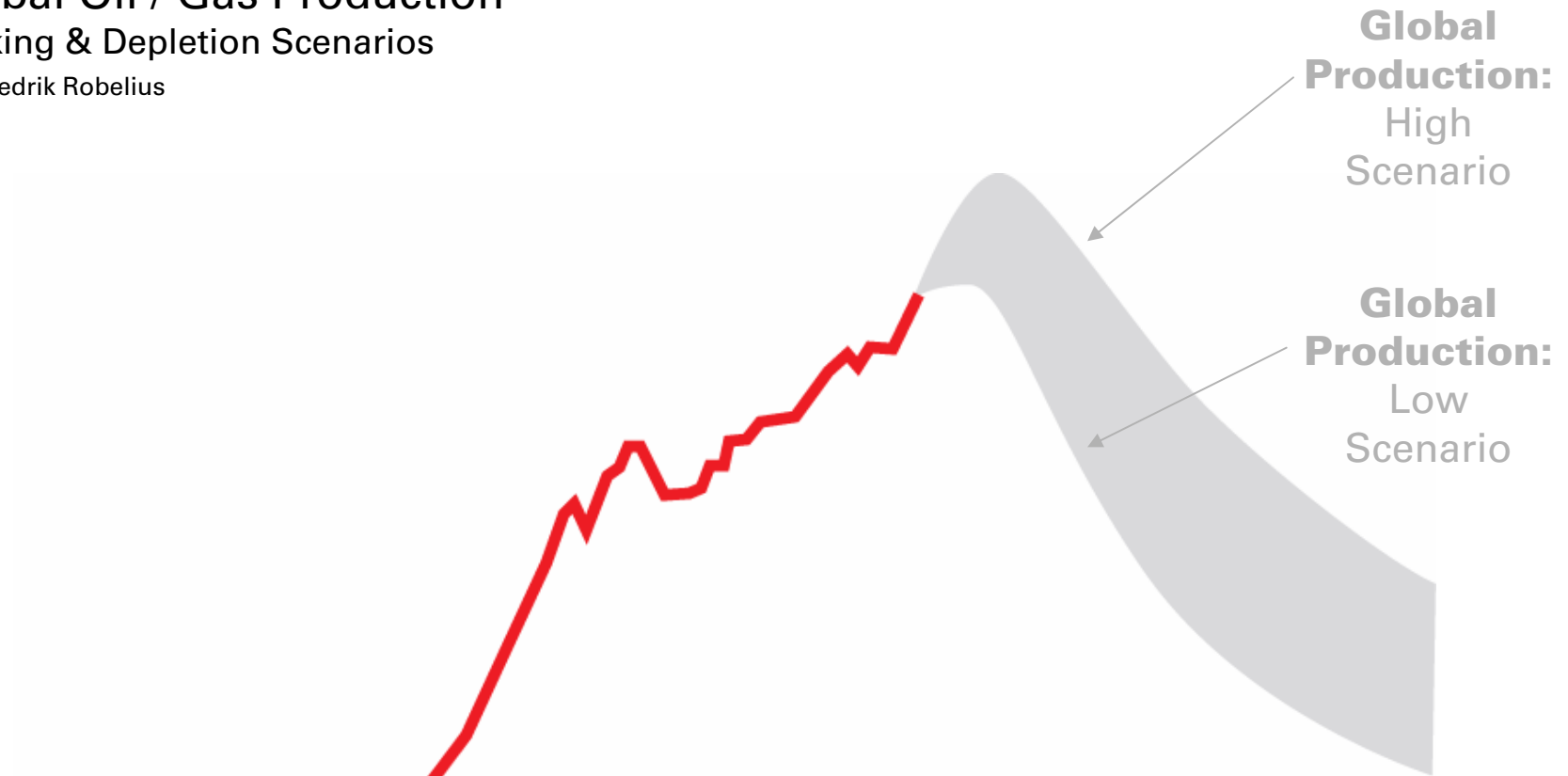
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Global Oil / Gas Production Peaking & Depletion Scenarios

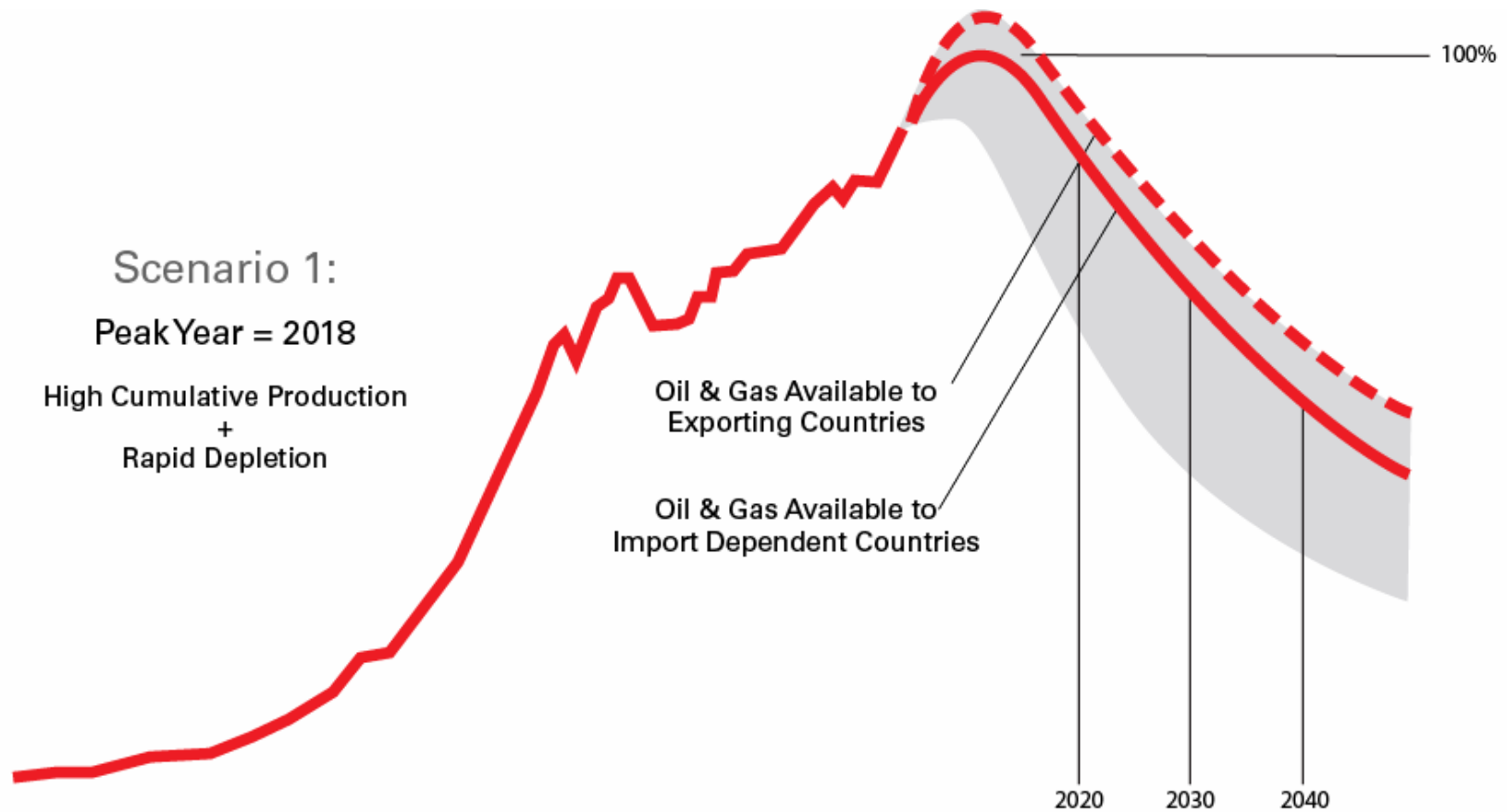
per Fredrik Robelius



A Depletion Model for North America

Modeling the future availability of Oil and Gas

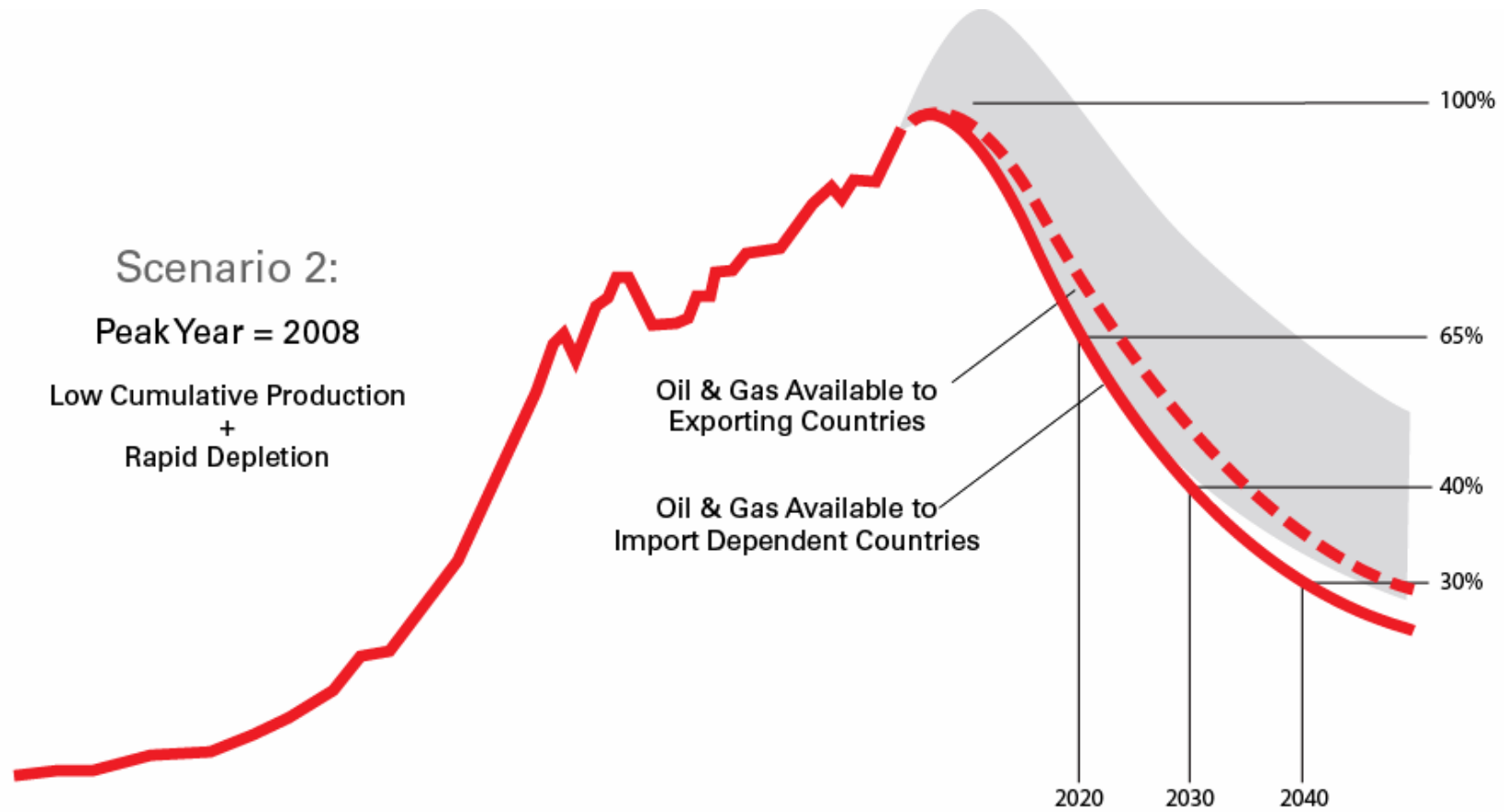
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Modeling the future availability of Oil and Gas

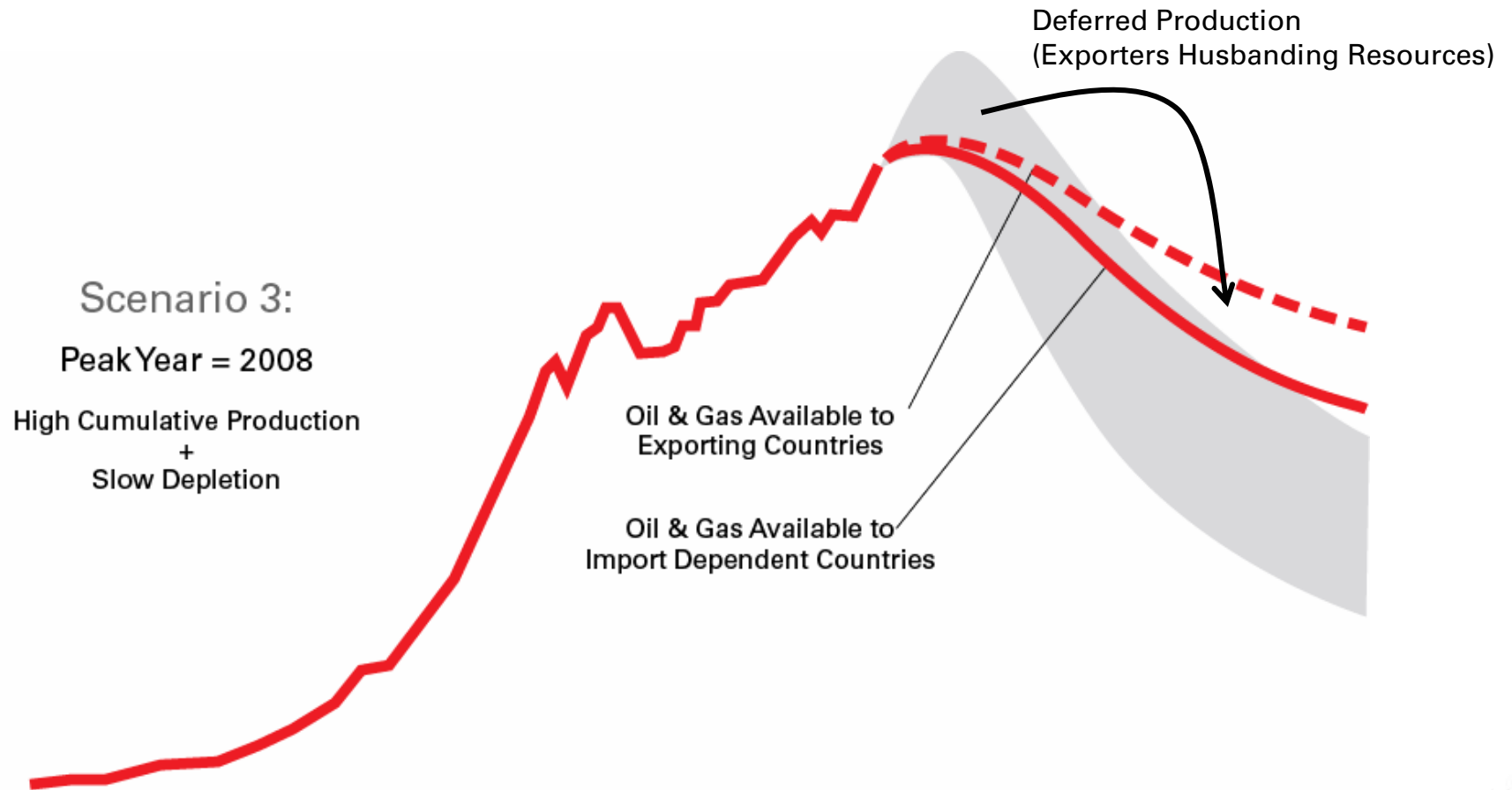
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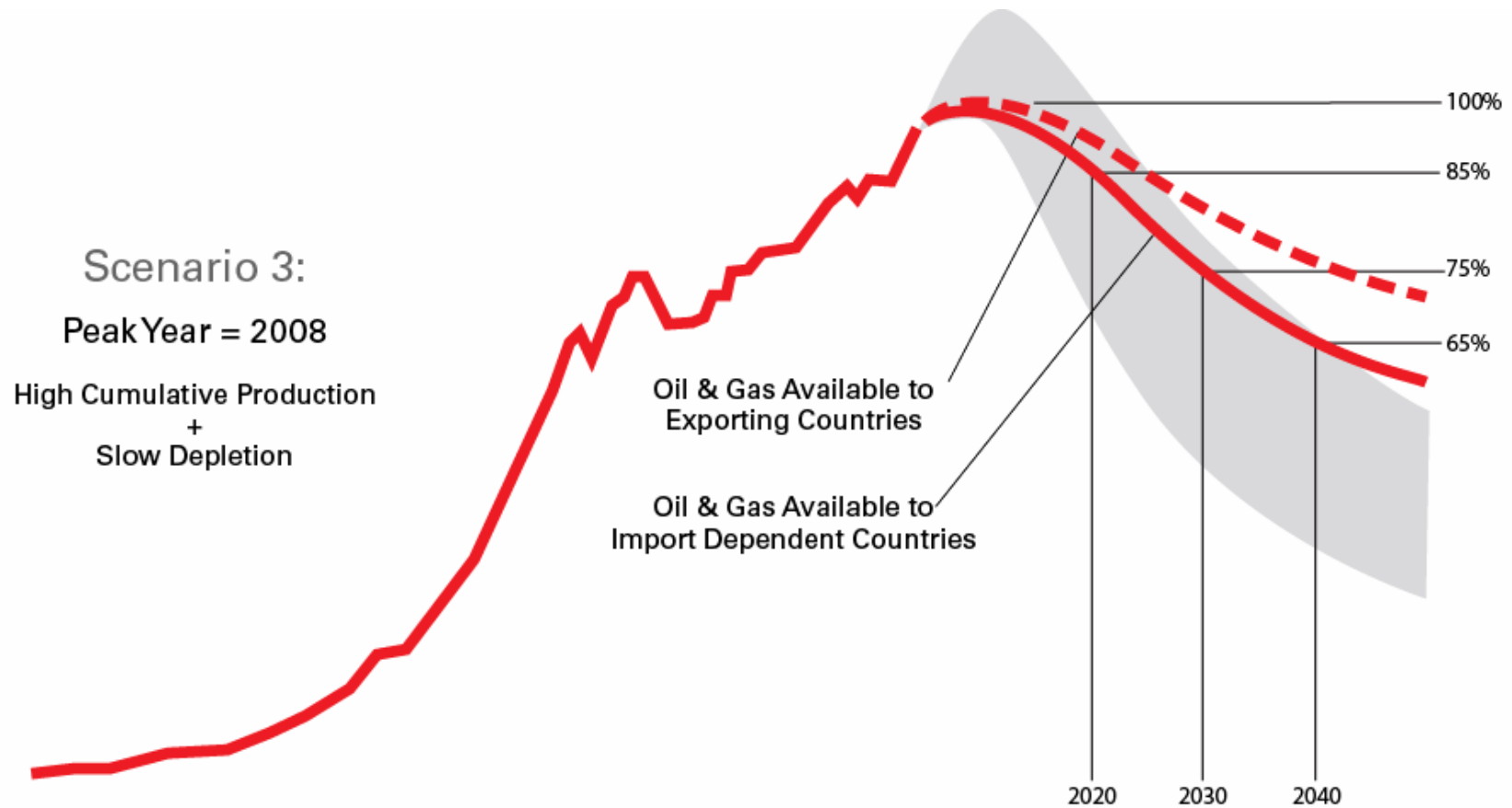
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A Depletion Model for North America

Modeling the future availability of Oil and Gas

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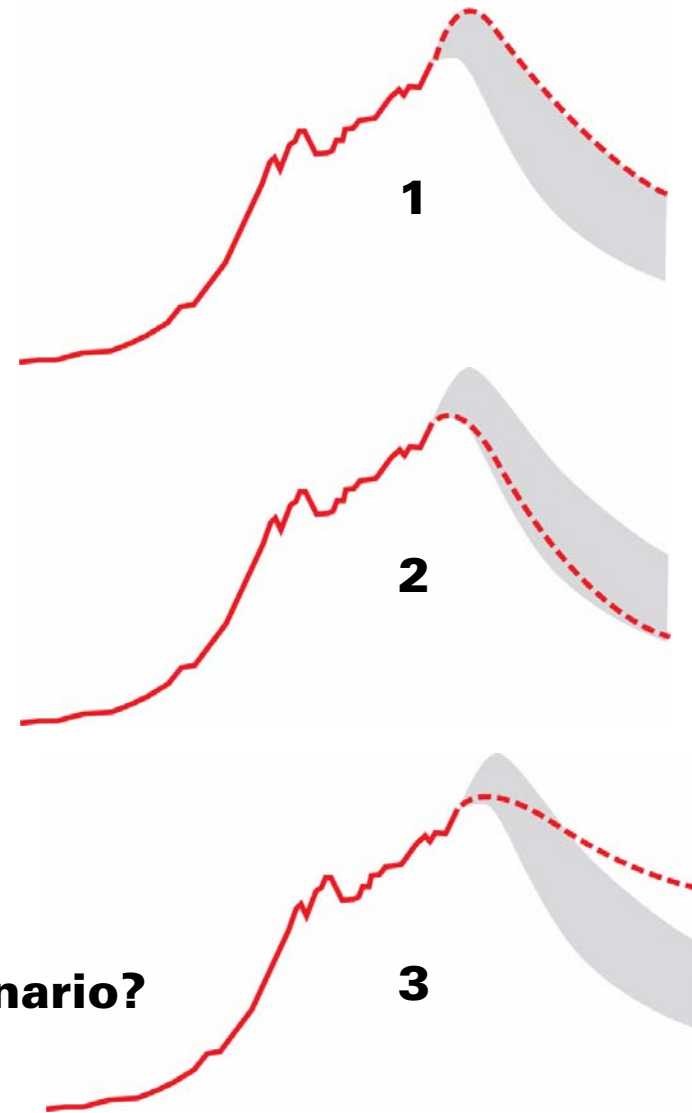


Depletion Models

'Best Case' for Social / Economic / Climate Stability

per Fredrik Robelius

'Best Case' Scenario?



Other Global Depletion Models

and arguments for picking one model vs. another...



Assumption 1:
There is substantial risk associated with cornucopian scenarios (such as CERA's)

Assumption 2:
North America will peak earlier than the world, and see steeper declines than the oil exporting countries.

Assumption 3:
North American natural gas faces serious depletion risk.

A Depletion Model for North America

A scenario model for infrastructure, emergency, and social planning.

DCP Depletion Scenario (2007-2050) **Peak: 2012 +/- 3 Years**



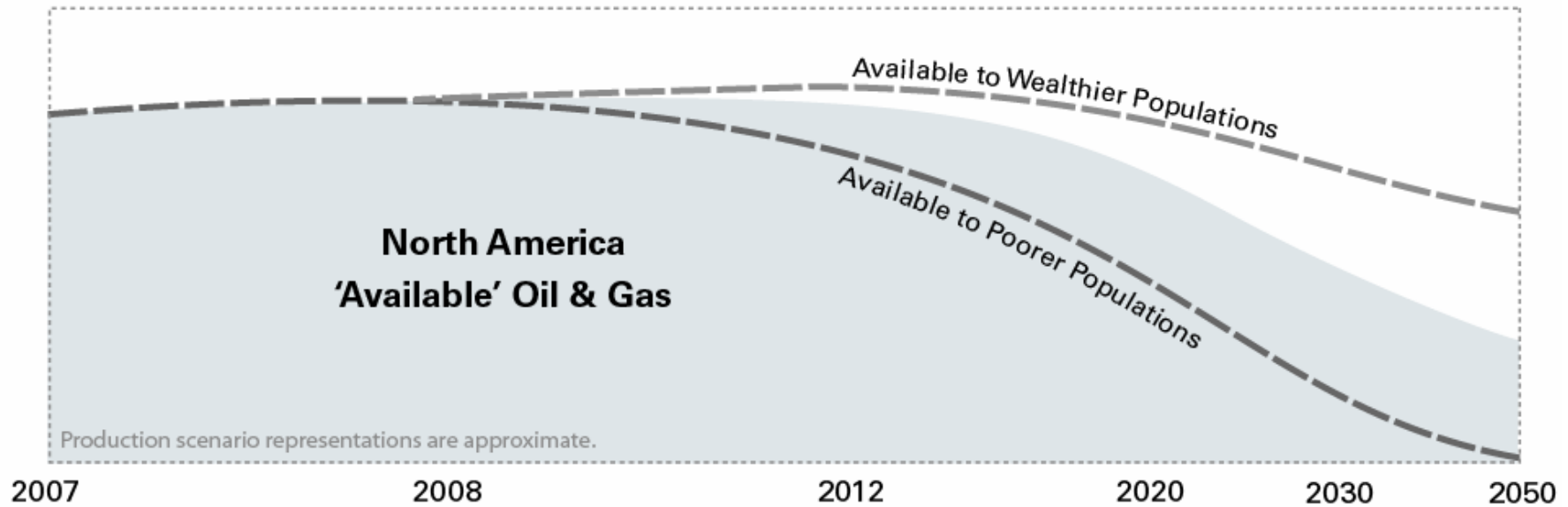
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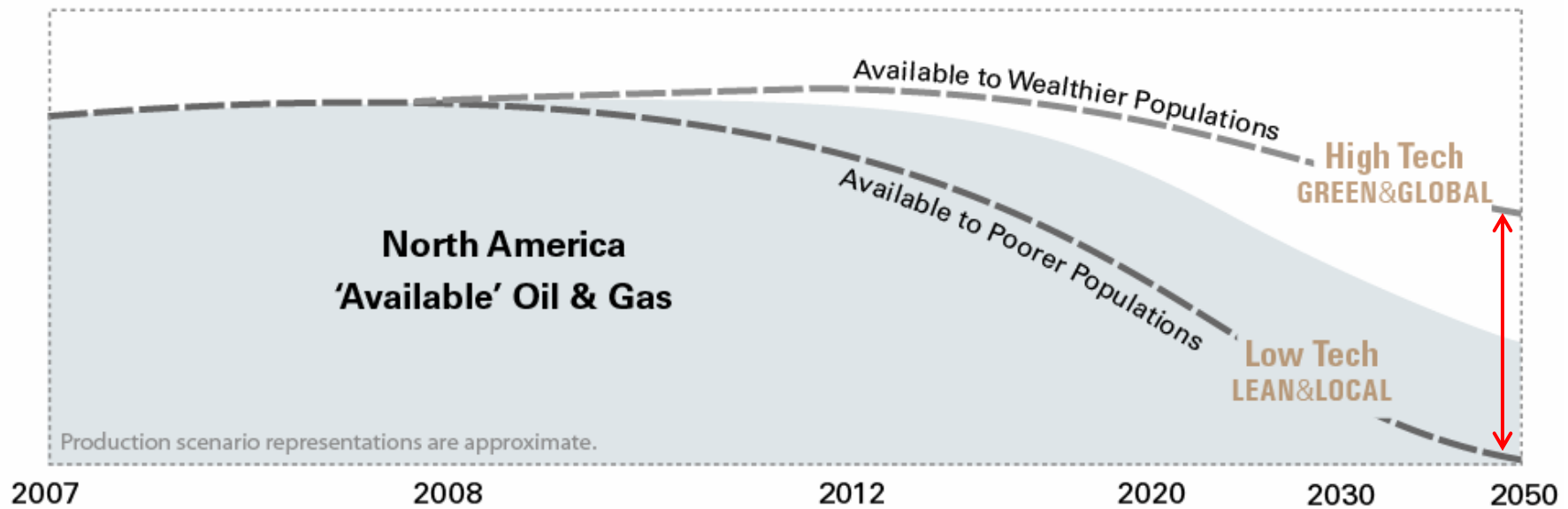
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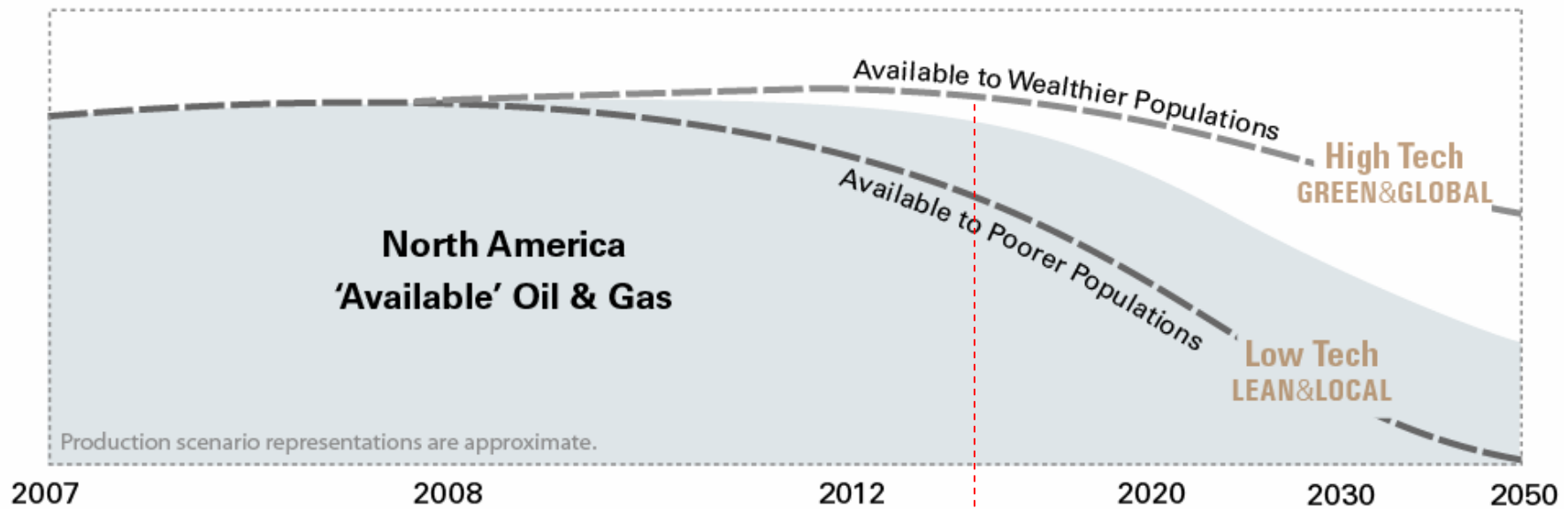


The Gap: A Growing Concern for Energy Justice

A Depletion Model for North America

A scenario model for infrastructure, emergency, and social planning.

DCP Depletion Scenario (2007-2050) **Peak: 2012 +/- 3 Years**



GREEN & GLOBAL:
Tech and Investment based pilot projects

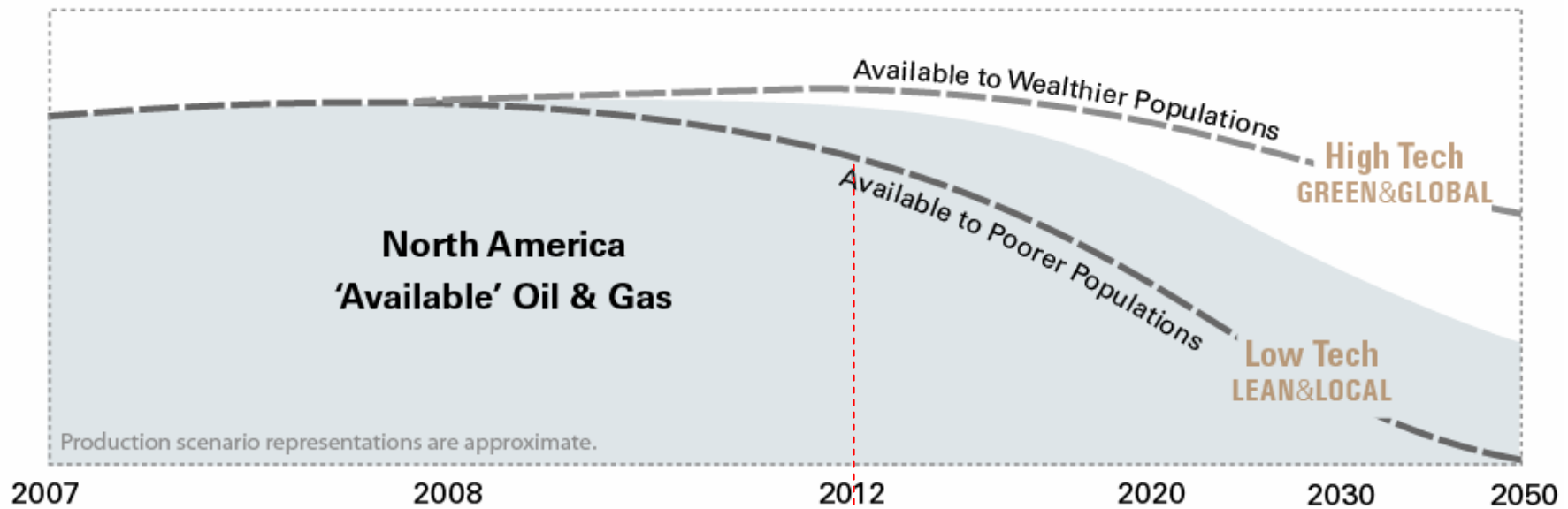
GREEN & GLOBAL: Scaling Up

2015

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DCP Depletion Scenario (2007-2050) **Peak: 2012 +/- 3 Years**



LEAN & LOCAL:

Rapid Response Plans 'Saving Energy in a Hurry'

Emissions and Vulnerability Audit – Who's most at risk?

LEAN & LOCAL: Scaling Up

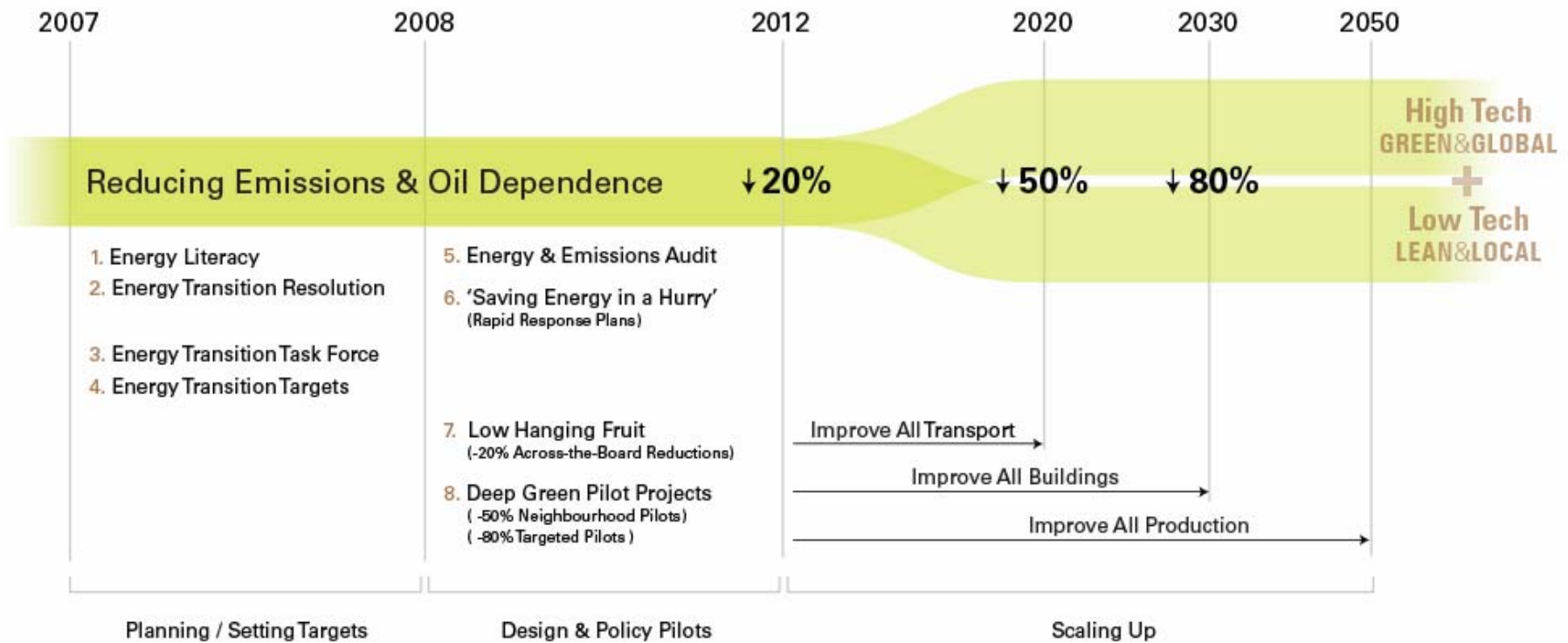
2012

From Depletion Model to Energy Transition Targets



Reducing Emissions & Oil Dependence

Timelines and Targets for the Dynamic City www.dynamiccities.org



dynamic cities project



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