

Advancing SDG 7 and its interlinkages with other SDGs

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SUSTAINABLE DEVELOPMENT GOALS

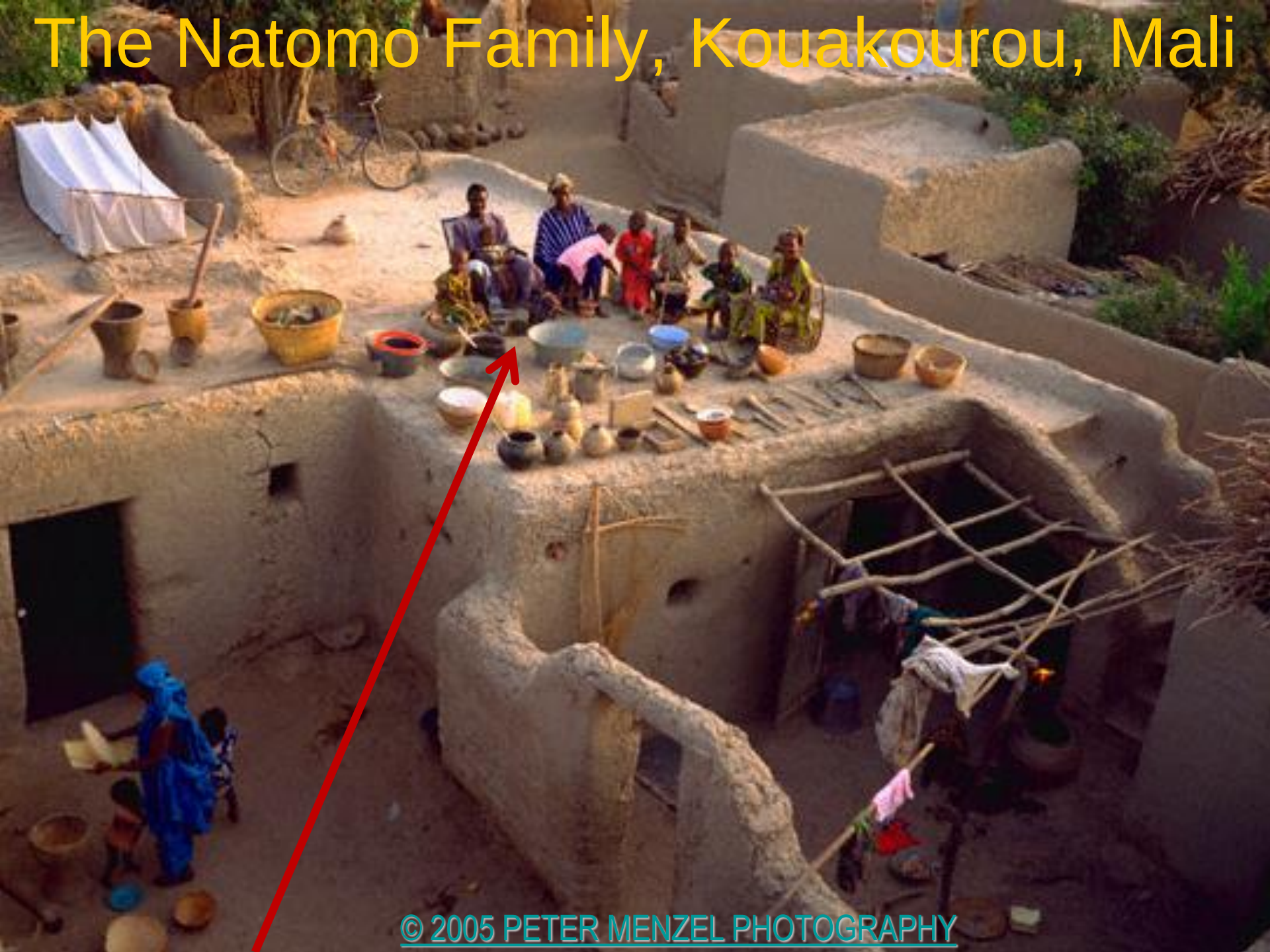




SUSTAINABLE DEVELOPMENT GOALS



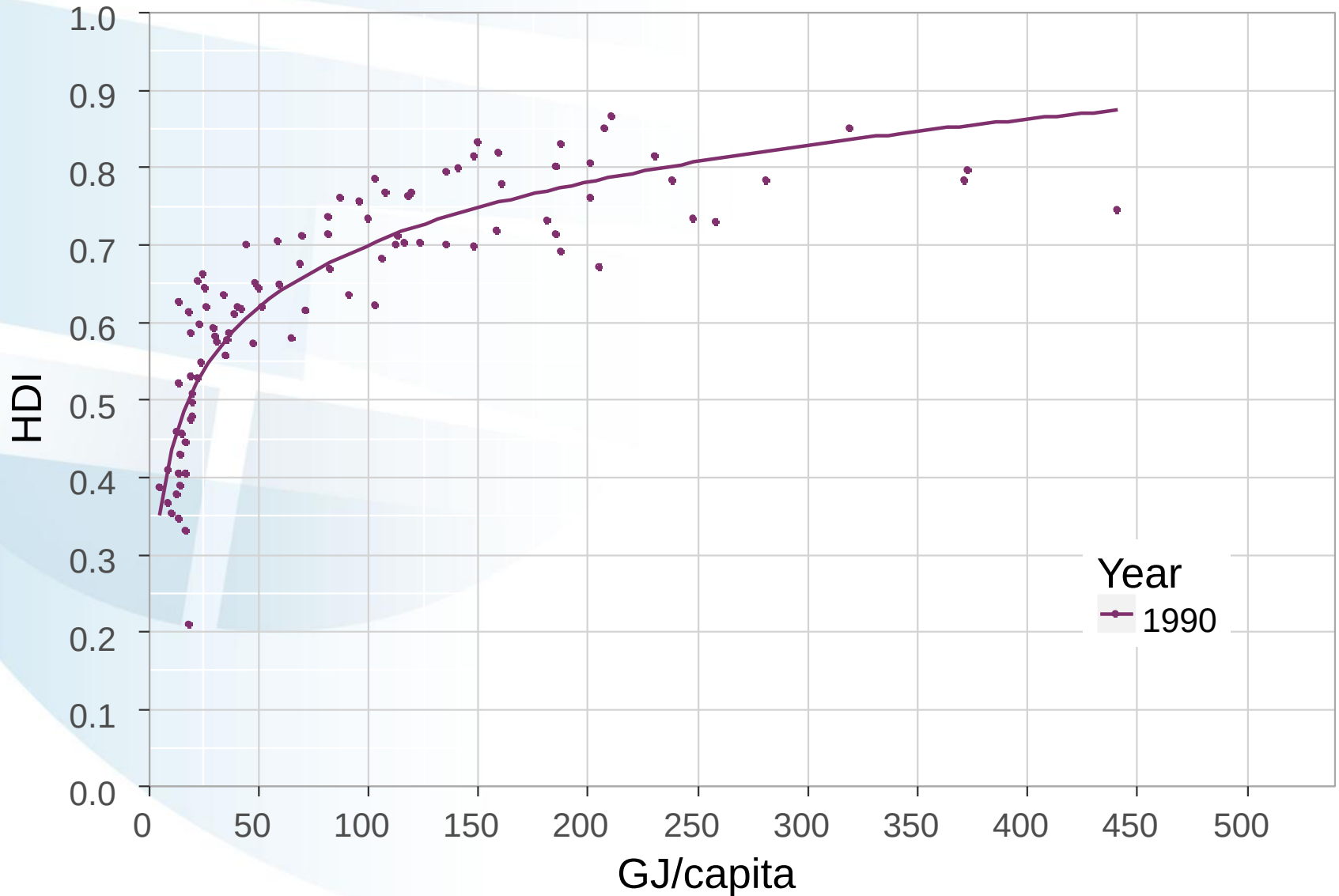
The Natomo Family, Kouakourou, Mali



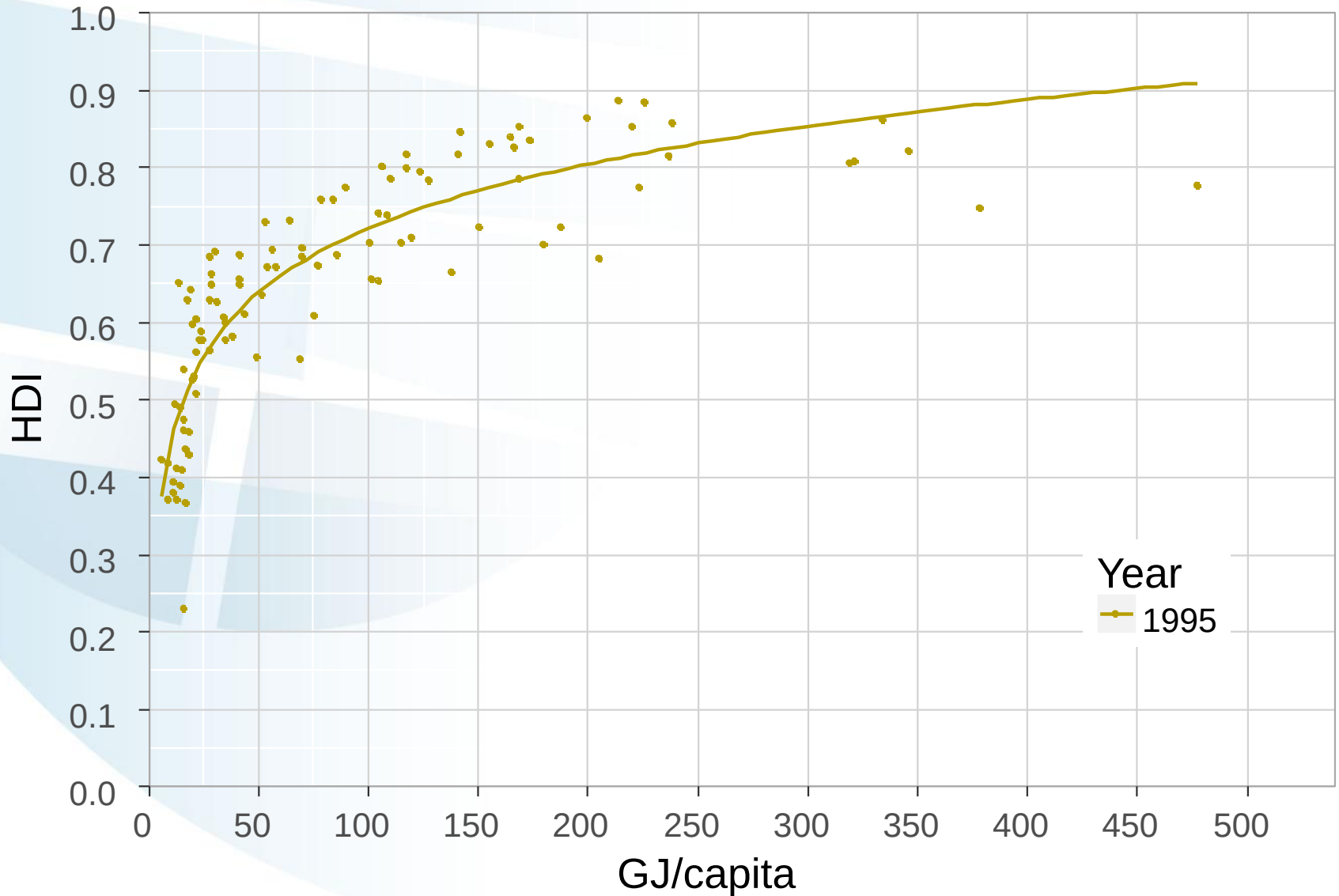
The Ukita Family, Tokyo, Japan



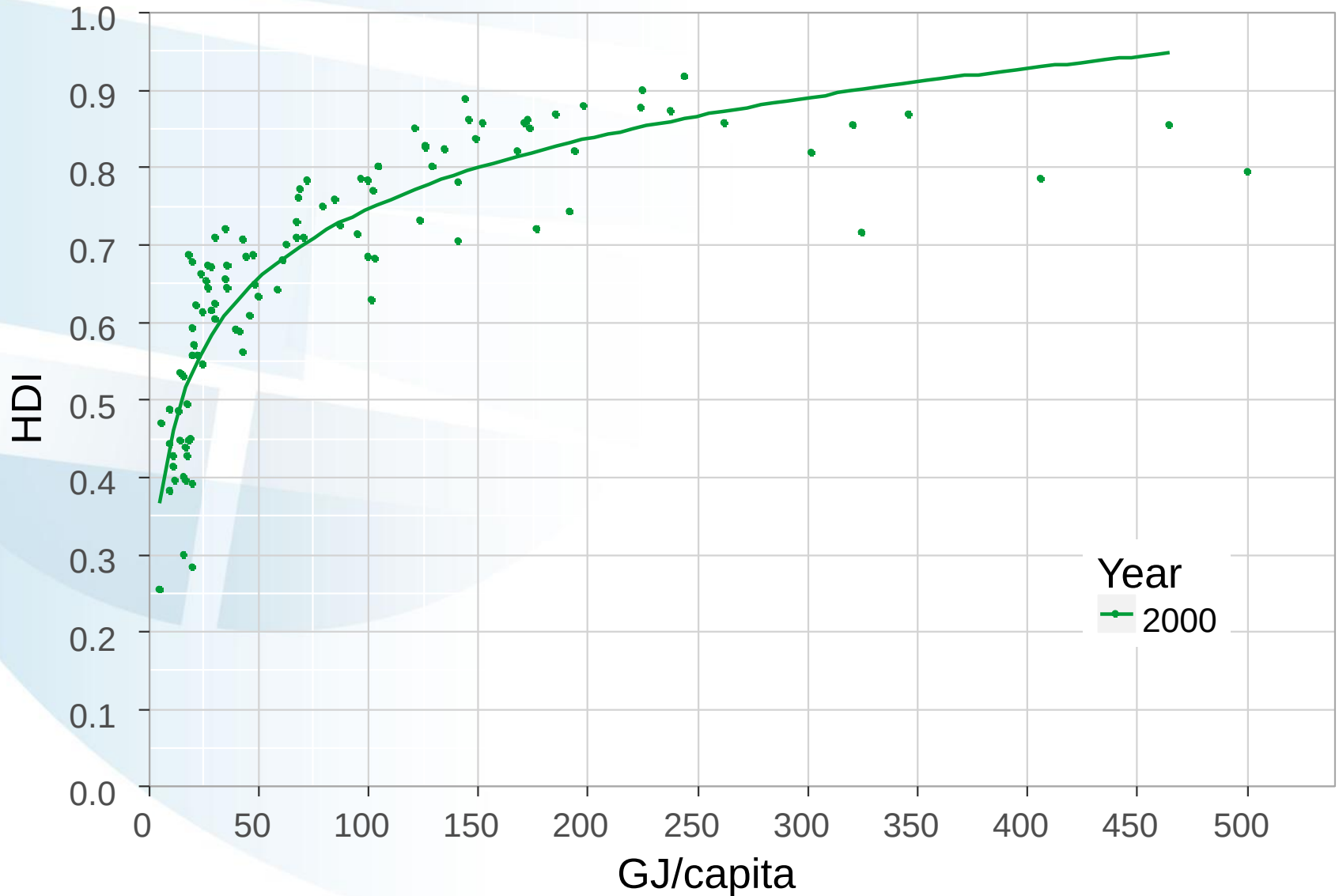
Human Development Index & Energy



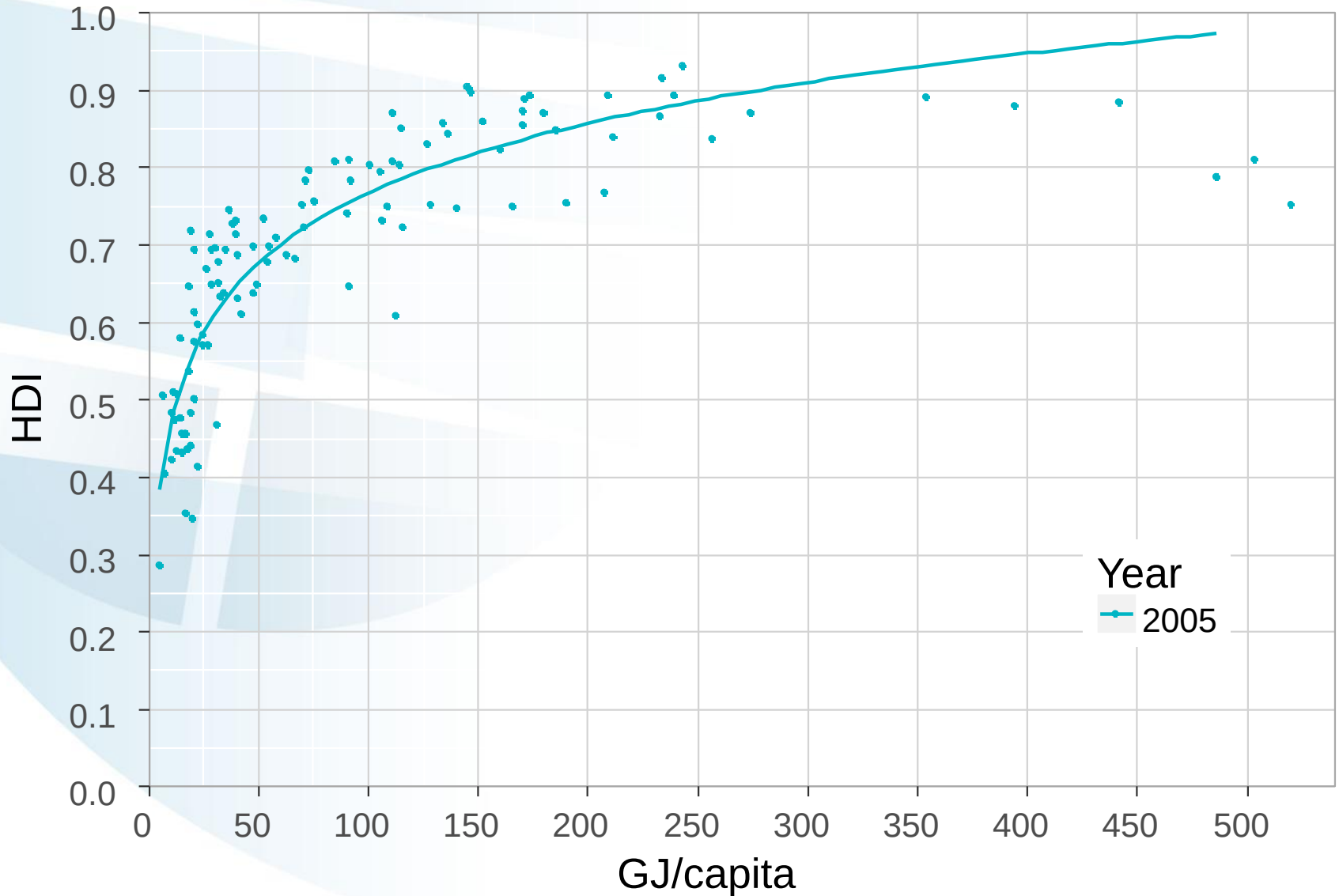
Human Development Index & Energy



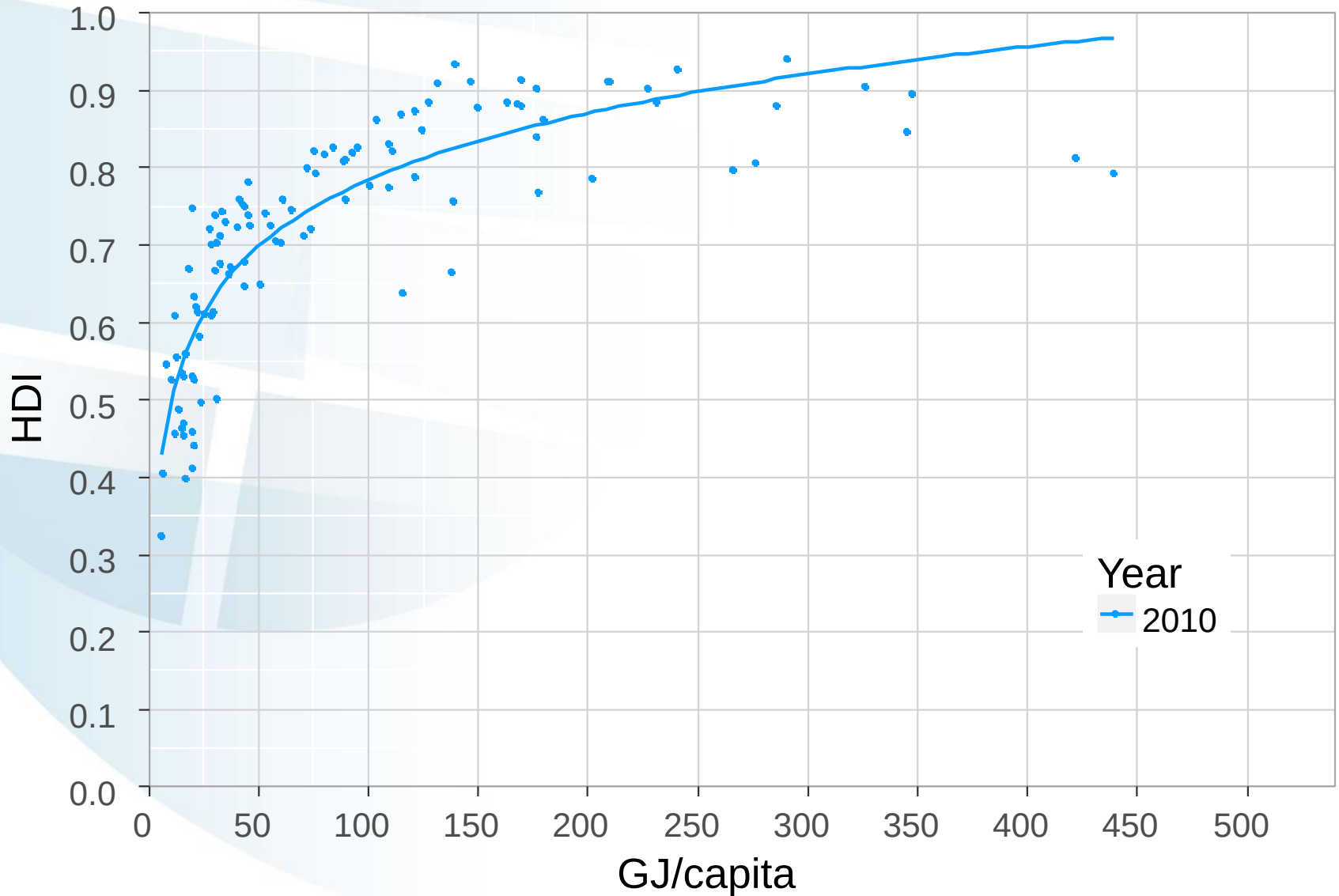
Human Development Index & Energy



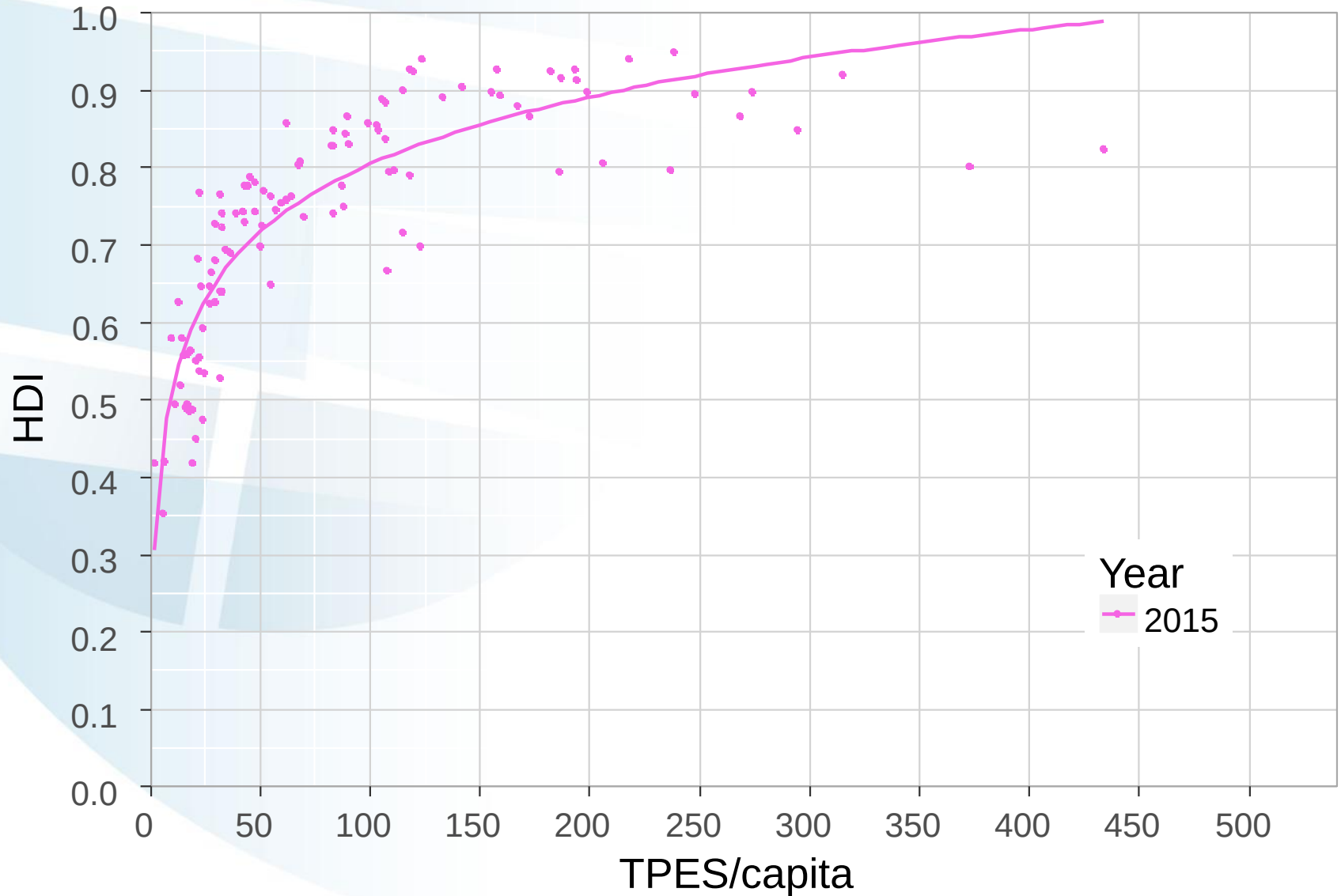
Human Development Index & Energy



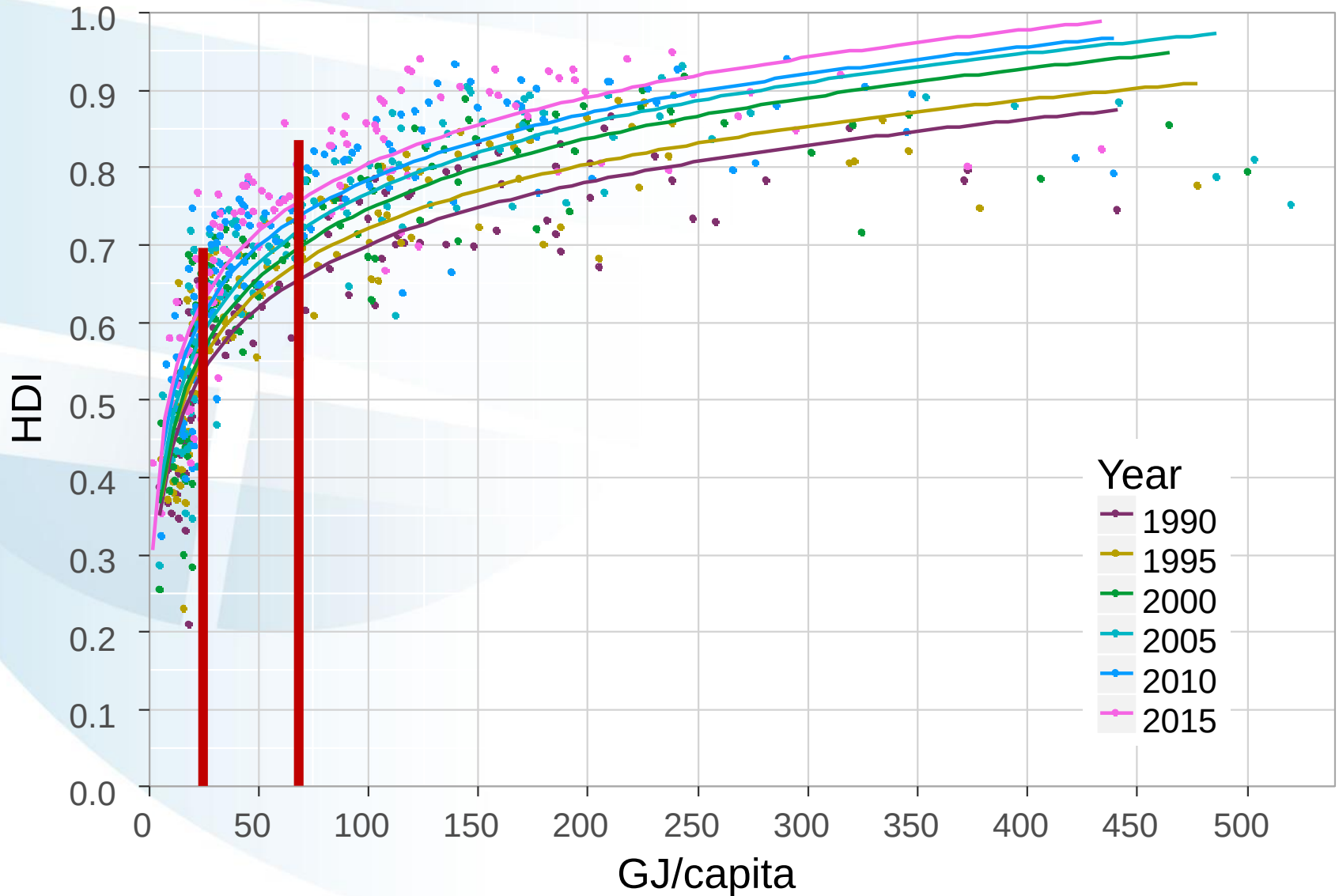
Human Development Index & Energy

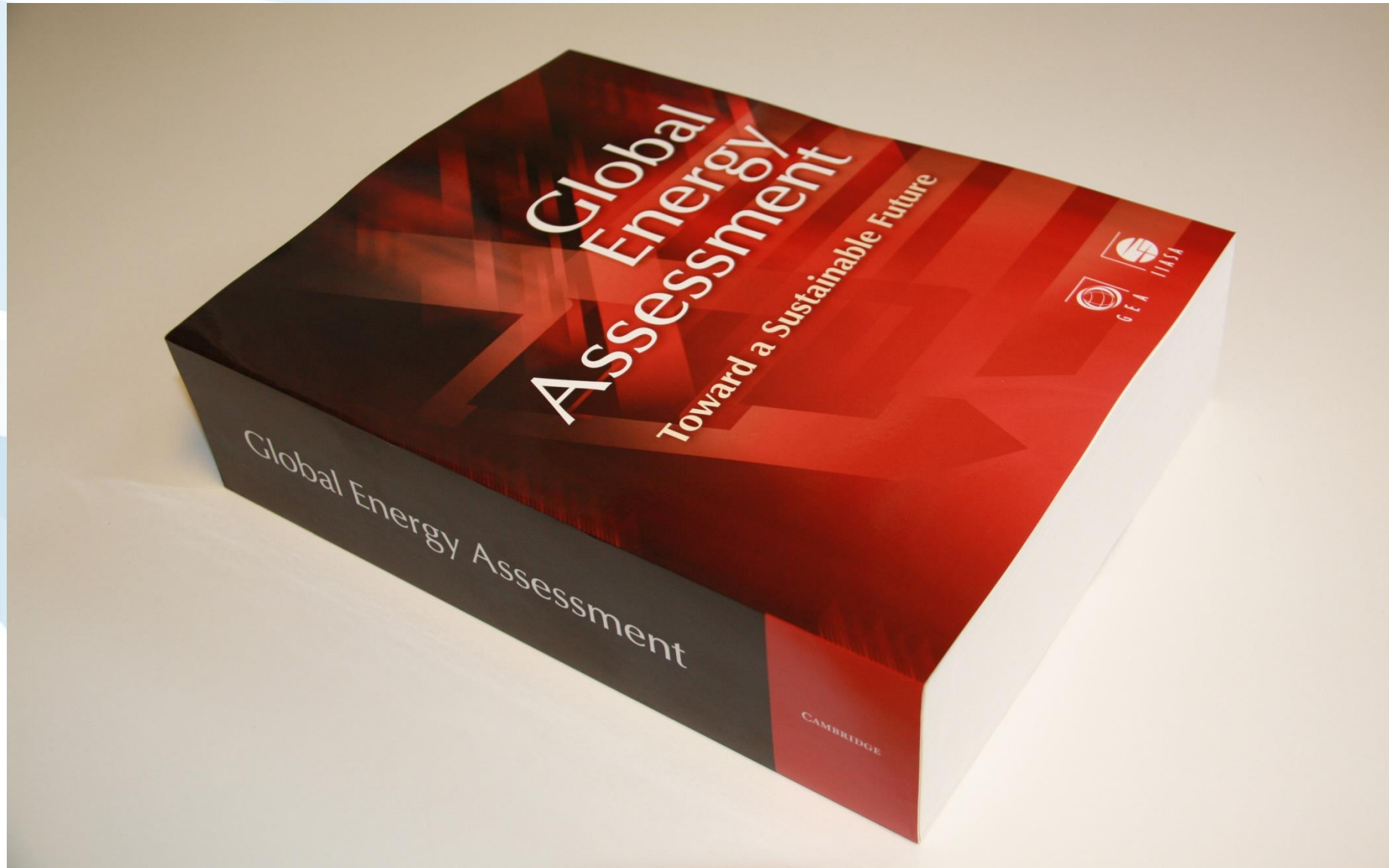


Human Development Index & Energy



Human Development Index & Energy





Global Energy Assessment

Toward a Sustainable Future



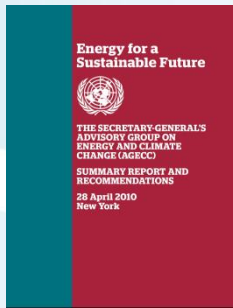
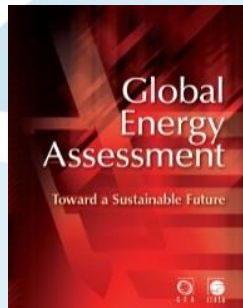
Energy for a Sustainable Future



**THE SECRETARY-GENERAL'S
ADVISORY GROUP ON
ENERGY AND CLIMATE
CHANGE (AGECC)**

**SUMMARY REPORT AND
RECOMMENDATIONS**

**28 April 2010
New York**



SUSTAINABLE ENERGY FOR ALL

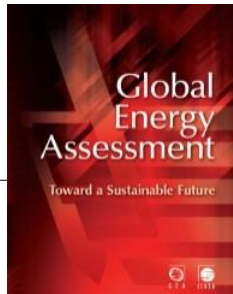
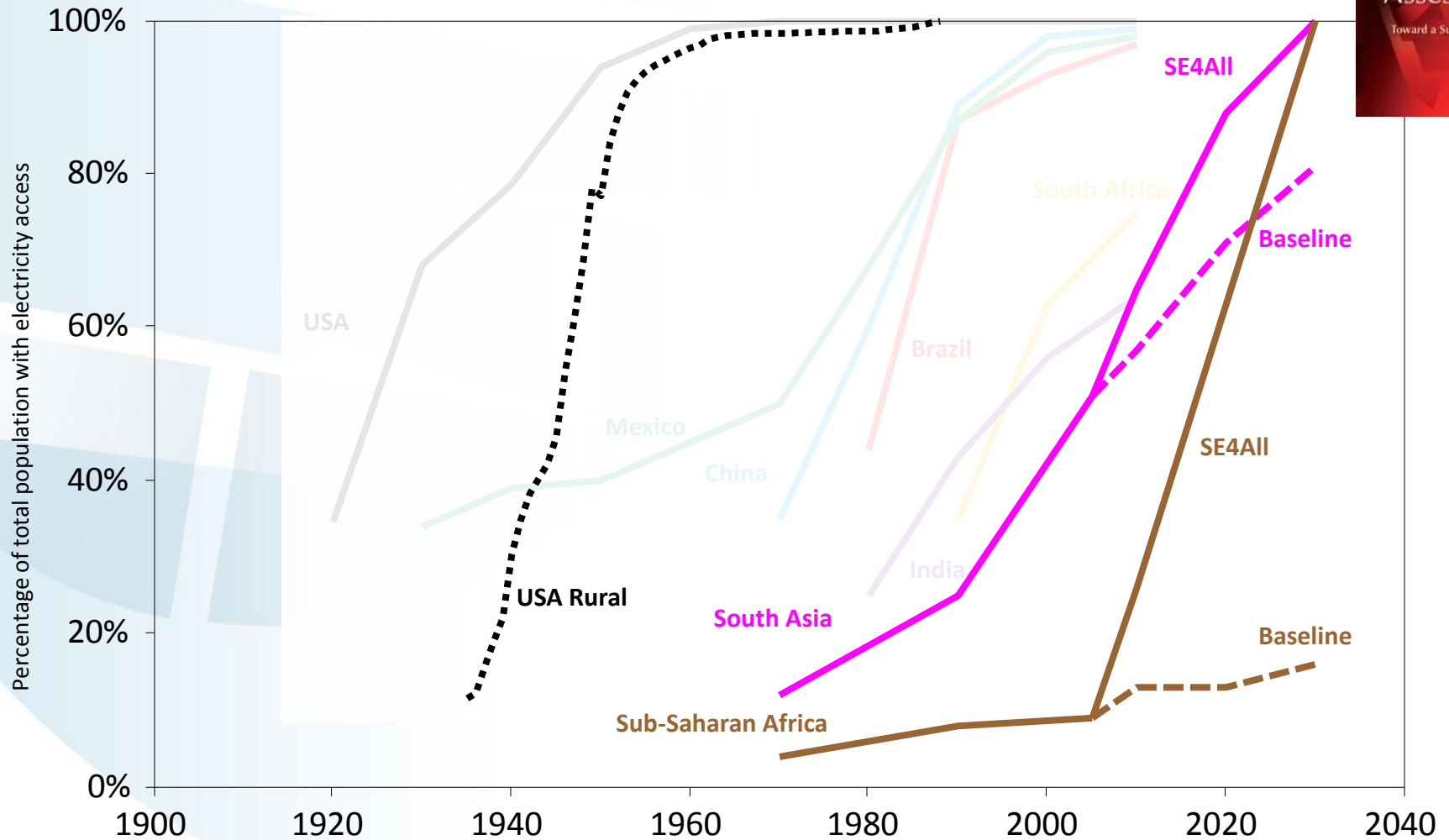


2030 GEA Goals and Targets

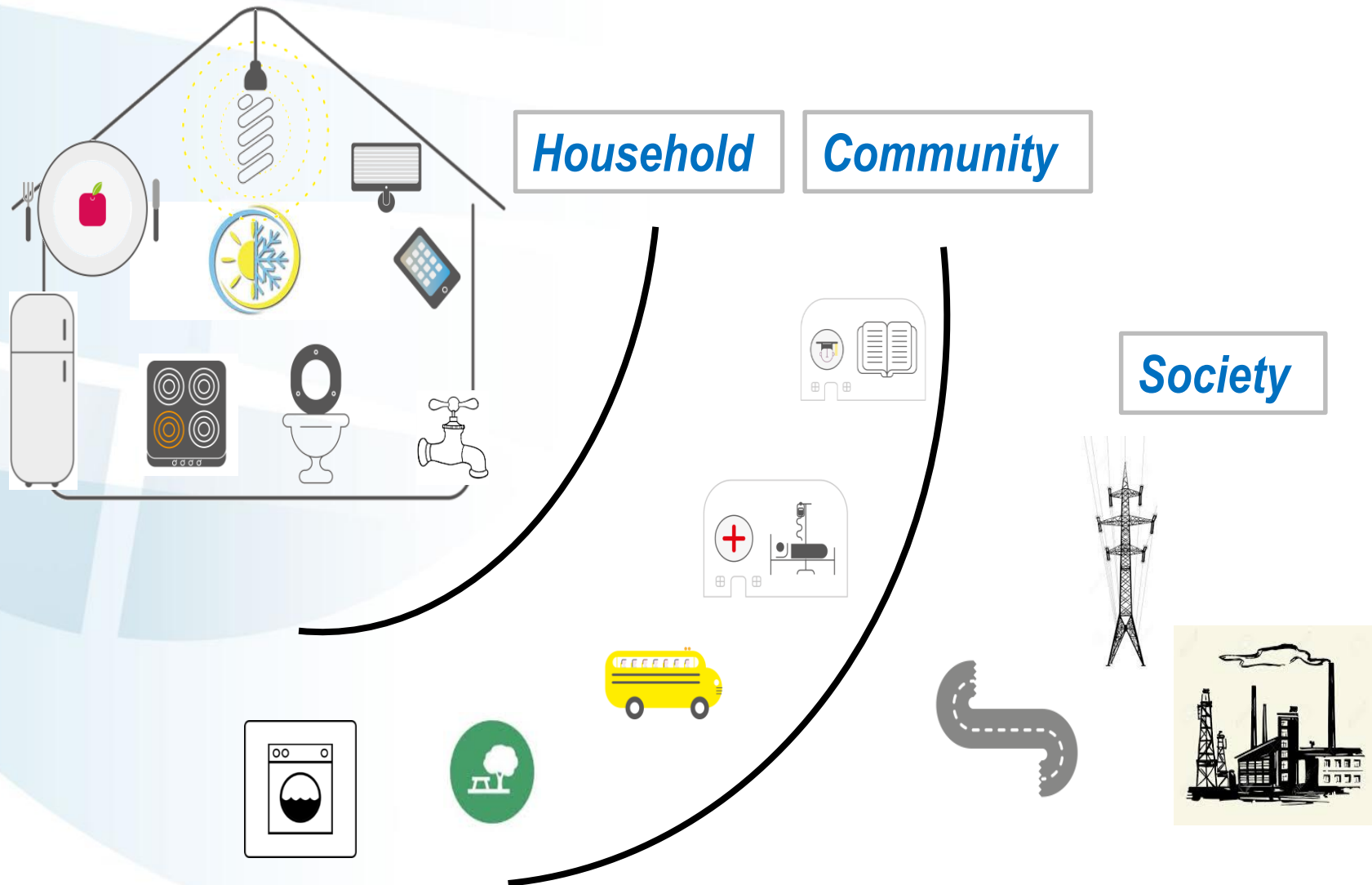
- Universal Access to Modern Energy
- Double Energy Efficiency Improvement
- Double Renewable Share in Final Energy

Aspirational & Ambitious but Achievable

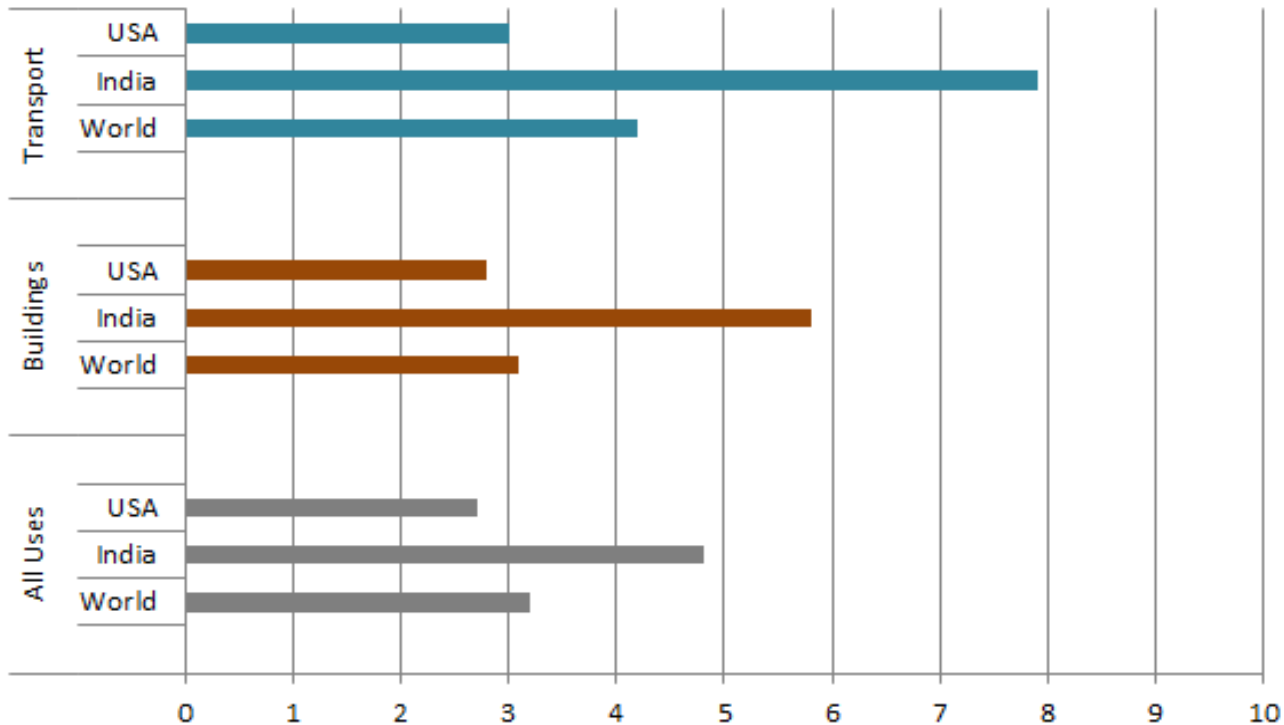
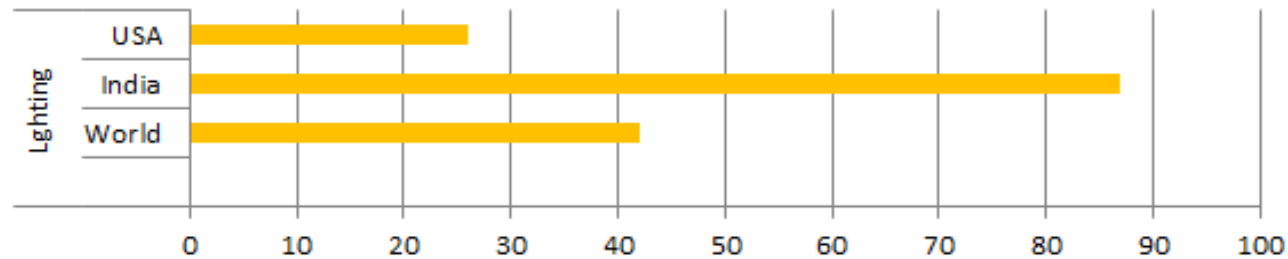
Electrification



Energy for 'Decent Living'

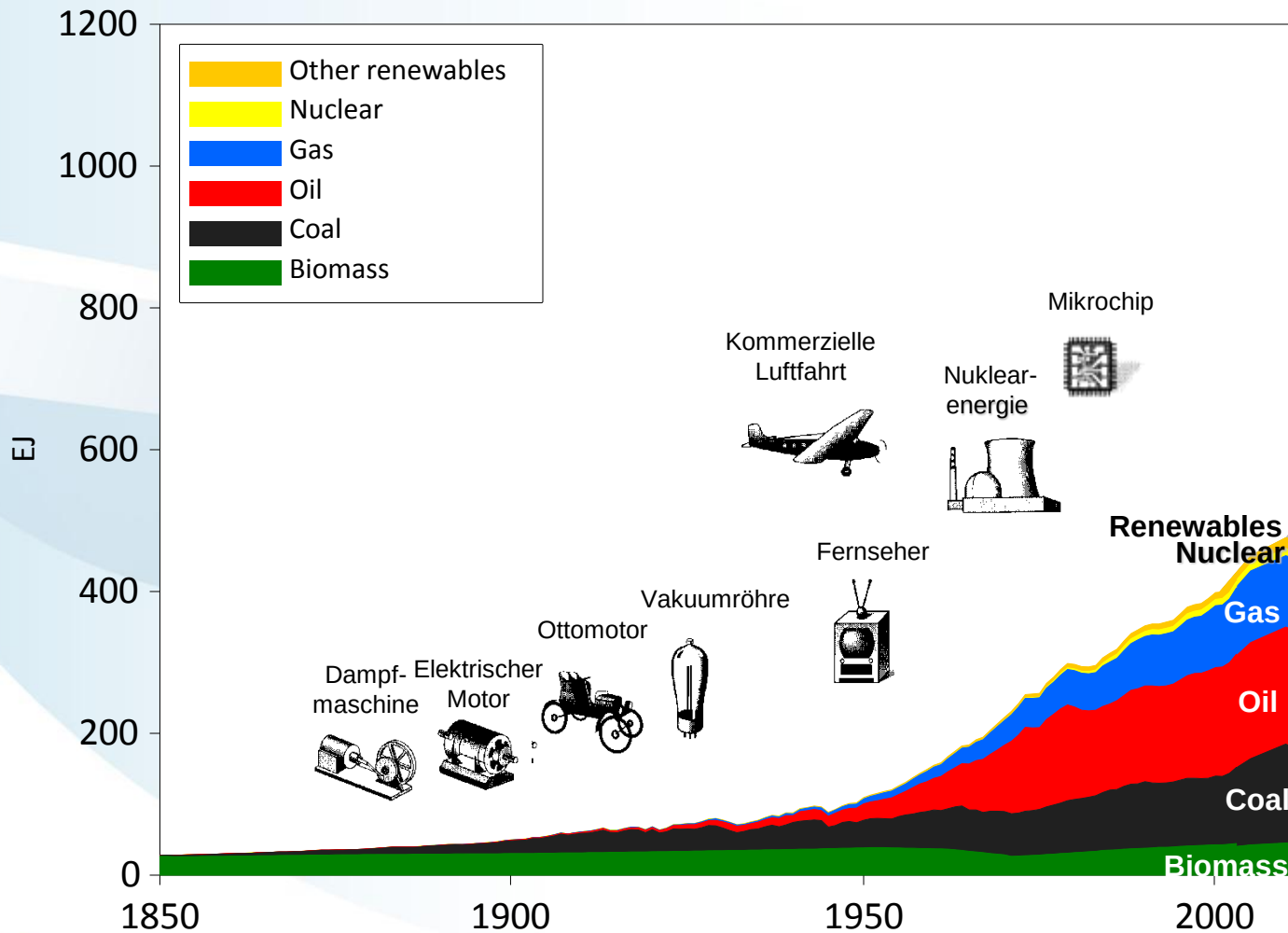
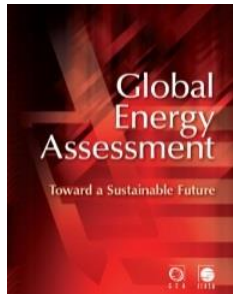


Upstream Leverage Effect of End-Use Efficiency Improvements



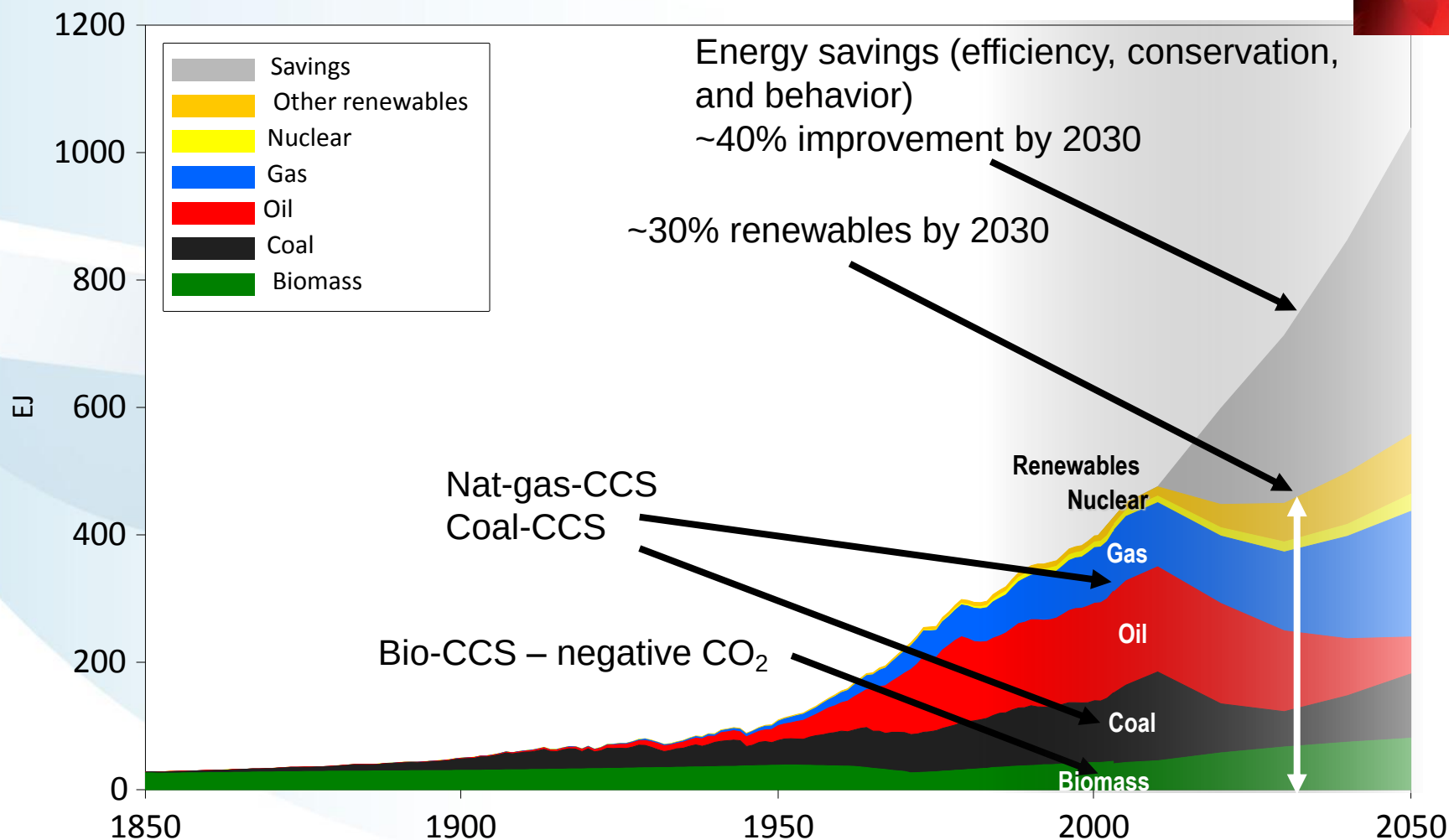
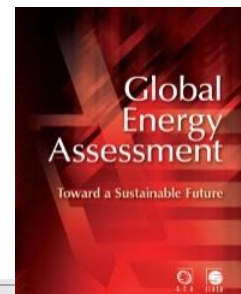
Units of primary energy saved per unit of useful energy conserved

Global Primary Energy Historical Evolution



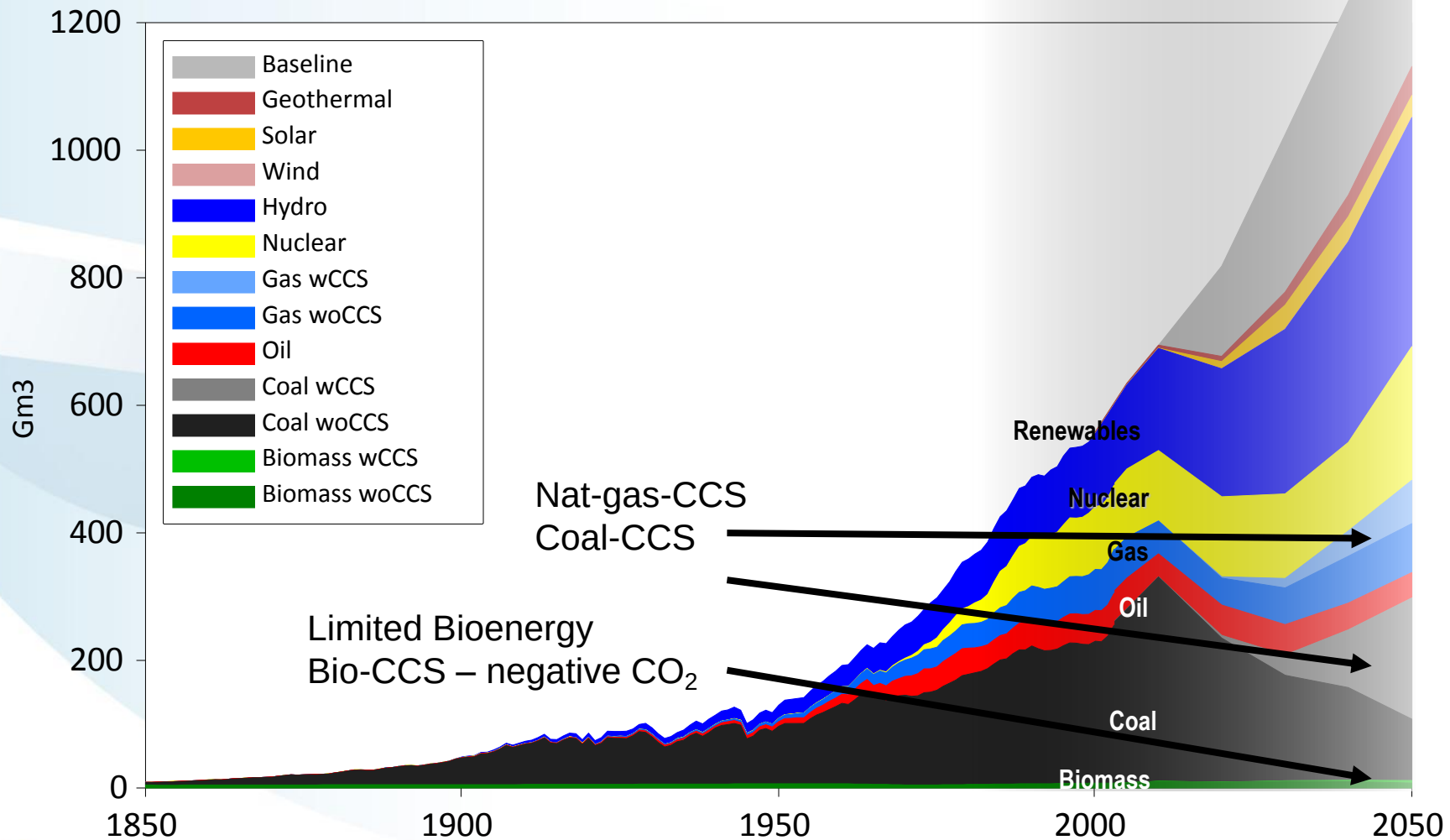
Global Primary Energy

A Transformational Pathway

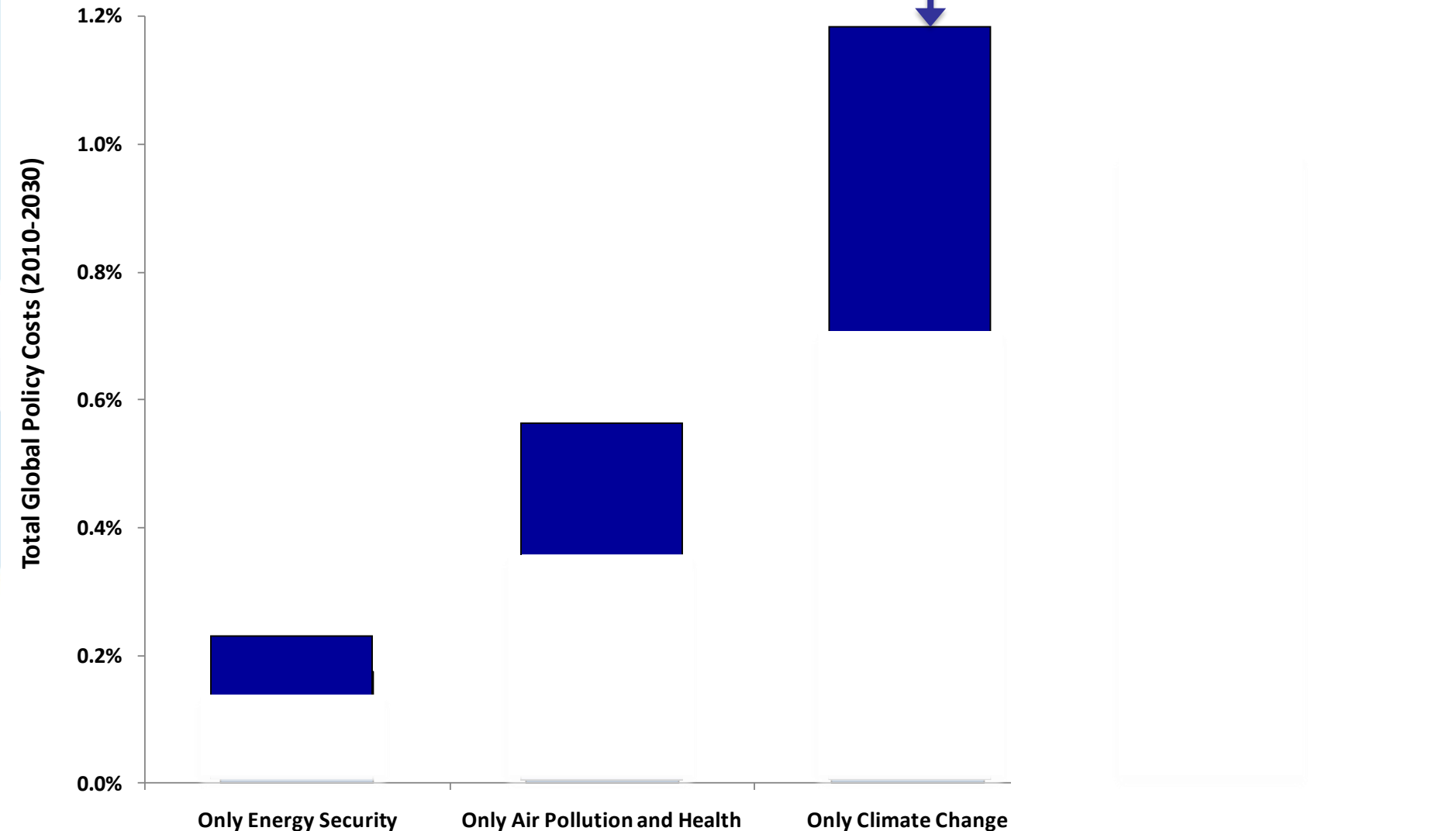


Global Water Withdrawals

A Transformational Pathway



Multiple Benefits of Integrated Policies



The World in 2050 (TWI2050.com)

“Doing More with Less” within Planetary Boundaries

Target space 2050+ →

Vision:
Sustainable
Future

Transformation Diffusion



One “backcasting” storyline and
many transformational pathways

← Target space 2030

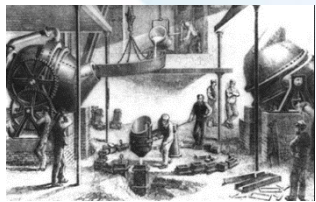
Legitimacy of
BAU eroding

2030

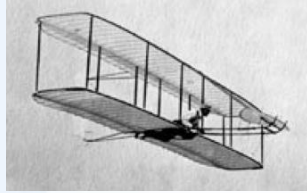
2050

Transformational Change

1850



1900



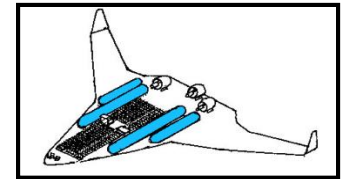
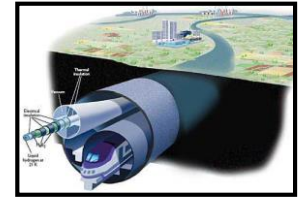
1950



2000



2050



Source: After Granger Morgan, 2013

2017 #25

Disruptive Change

Easter Parade on Fifth Avenue, New York, 13 years apart

1900: where's the car?



1913: where's the horse?



Images: L, National Archive, www.archives.gov/research/american-cities/images/american-cities-101.jpg

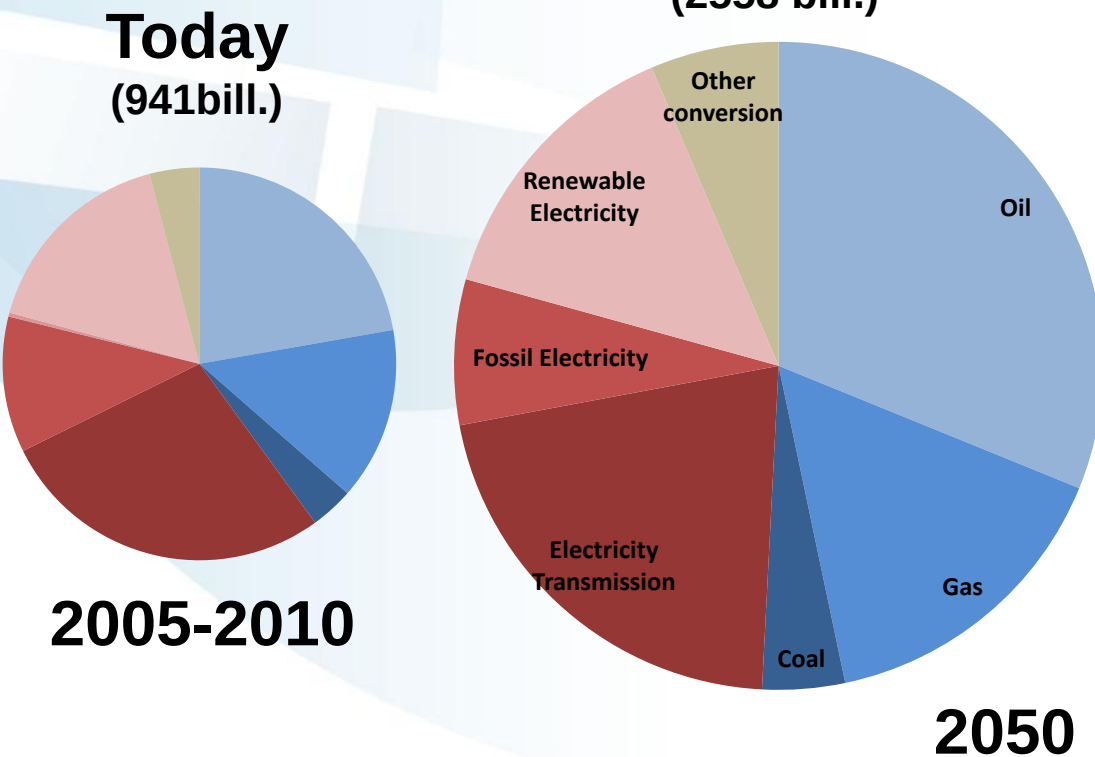
R, shorpy.com/node/204.

Inspiration: Tona Seba's keynote lecture at AltCar, Santa Monica CA, 28 Oct 2014,

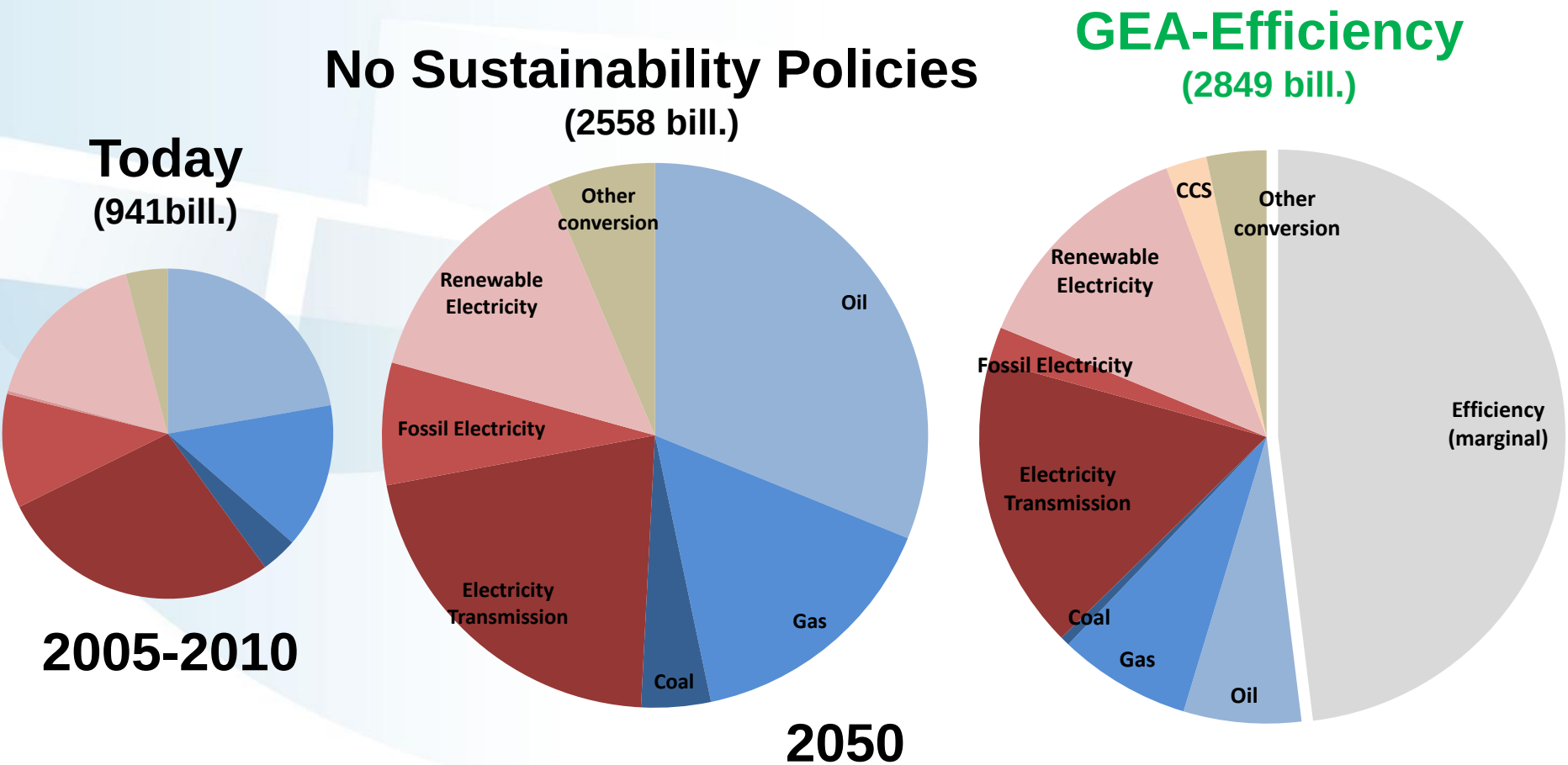
<http://tonaseba.com/keynote-at-altcar-2014-100-electric-transportation-100-solar-by-2030/>

Investment Portfolios World

No Sustainability Policies (2558 bill.)



Investment Portfolios World



THANK YOU

science for global insight



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