

Vision 2050

**The Forests Dialogue (TFD) –
Scoping Dialogue on Food,
Fuel, Fiber and Forests**

Washington D.C. 1-3rd June 2011



World Business Council for
Sustainable Development

The new agenda for business



Agenda

1. WBCSD intro

2. Vision 2050

a. Project summary

b. Agriculture and Forest
Pathways

3. Relevance to The Forests
Dialogues 4F's initiative

[illegible]

Regional Network



We also benefit from:

- 61 independent national and regional partner organizations
- involving thousands of business leaders
- two-thirds in developing countries and emerging economies.

www.wbcsd.org/regional/htm



Vision 2050 – collaborative effort by 29 WBCSD members

A platform for dialogue about the role of business in a resource & carbon constrained world.....*including agriculture and forests*





About Vision 2050

- The vision concept and the 2050 timeframe provide a clear and feasible goal for...
 - Identifying **the gap** between today and 2050
 - Developing **a pathway** and areas of action
 - Clarifying **the business perspective**
 - Quantifying **market potential**
 - Agreeing on action points and **next steps**



A platform for dialogue – not a blueprint

Is...

- a platform for dialogue, for asking questions
- a positive and attractive vision of a world in 2050 and the role of business in helping us to get there

Is not...

- a prescriptive plan or a blueprint
- an exhaustive and detailed picture with a complete set of answers
- a binding set of commitments and promises
- a universal perspective



Three key questions

- What does a sustainable world look like?
- How can we realize it?
- What are the roles business can play in ensuring more rapid progress toward that world?

Business-as-usual Outlook to 2050





An exploitative relationship with our planet

“Humanity has largely had an exploitative relationship with our planet; we can, and should, aim to make this a symbiotic one.”

Michael Mack, Syngenta International AG

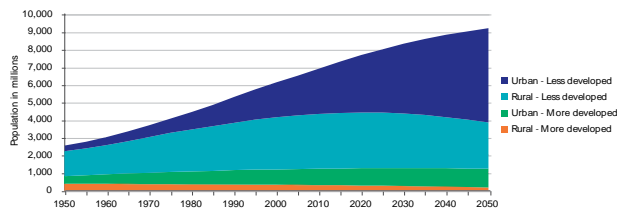


Growth and degradation

Growth

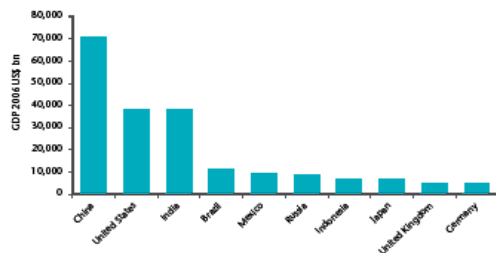
The world population is increasingly urban

Global population by type of area and by region – 1950-2050



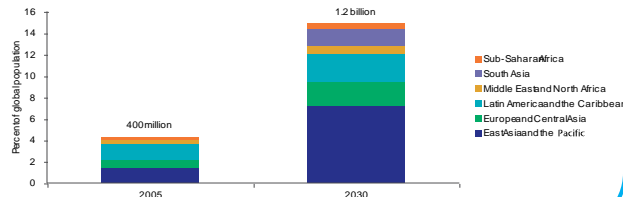
Global economic power is shifting

Top 10 economies by GDP in 2050



The global middle class is rapidly expanding

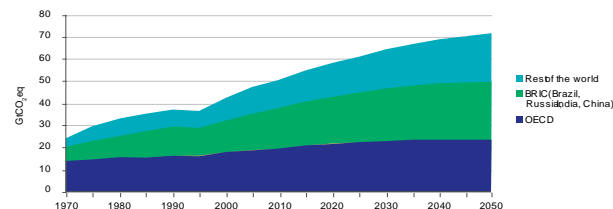
Population in low- and middle-income countries earning US\$ 4,000-17,000 per capita (purchasing power parity)



Degradation

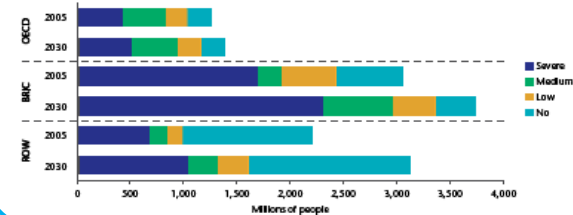
Greenhouse gas emissions keep rising

GHG emissions by regions



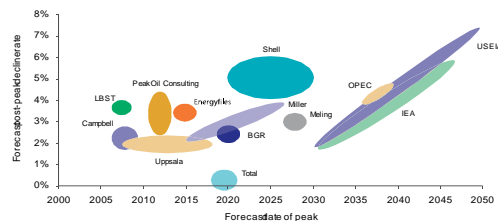
Environmental degradation jeopardizes people's quality of life

People living in areas of water stress by level of stress



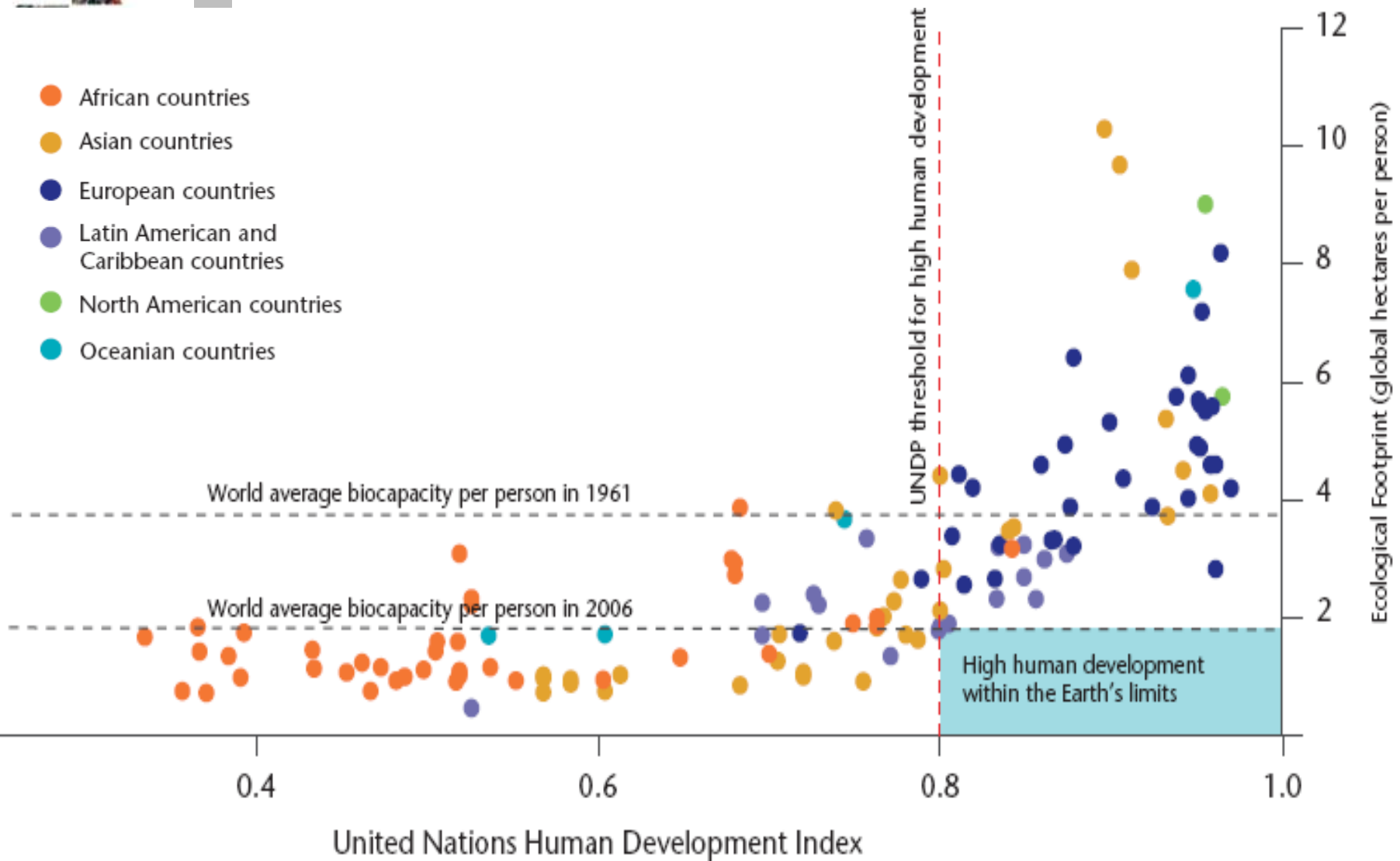
The world could be running out of some resources

Global supply forecasts according to the implied ultimate recoverable resources of conventional oil, date of peak production and the post-peak aggregate decline rate

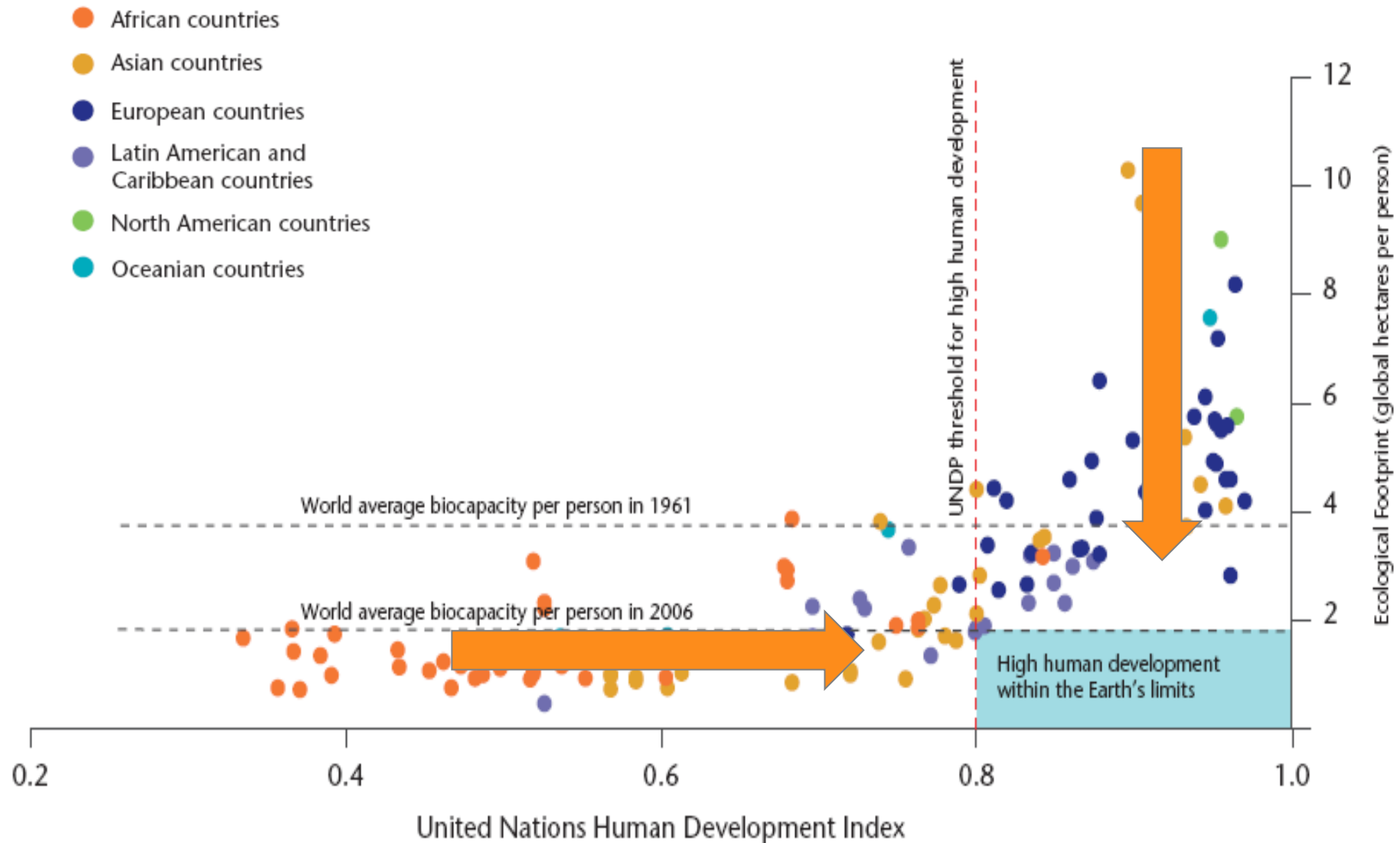




Development and consumption levels are outpacing ecological limits



Two innovation challenges - improving living standards within ecological limits





Vision 2050 - Nine billion people living well within the limits of the planet

- Diversity and interdependence
- A different economic reality
- Multi-partner governance
- In markets: Innovating and deploying solutions
- Dealing with climate change
- An evolved workplace and evolved employers



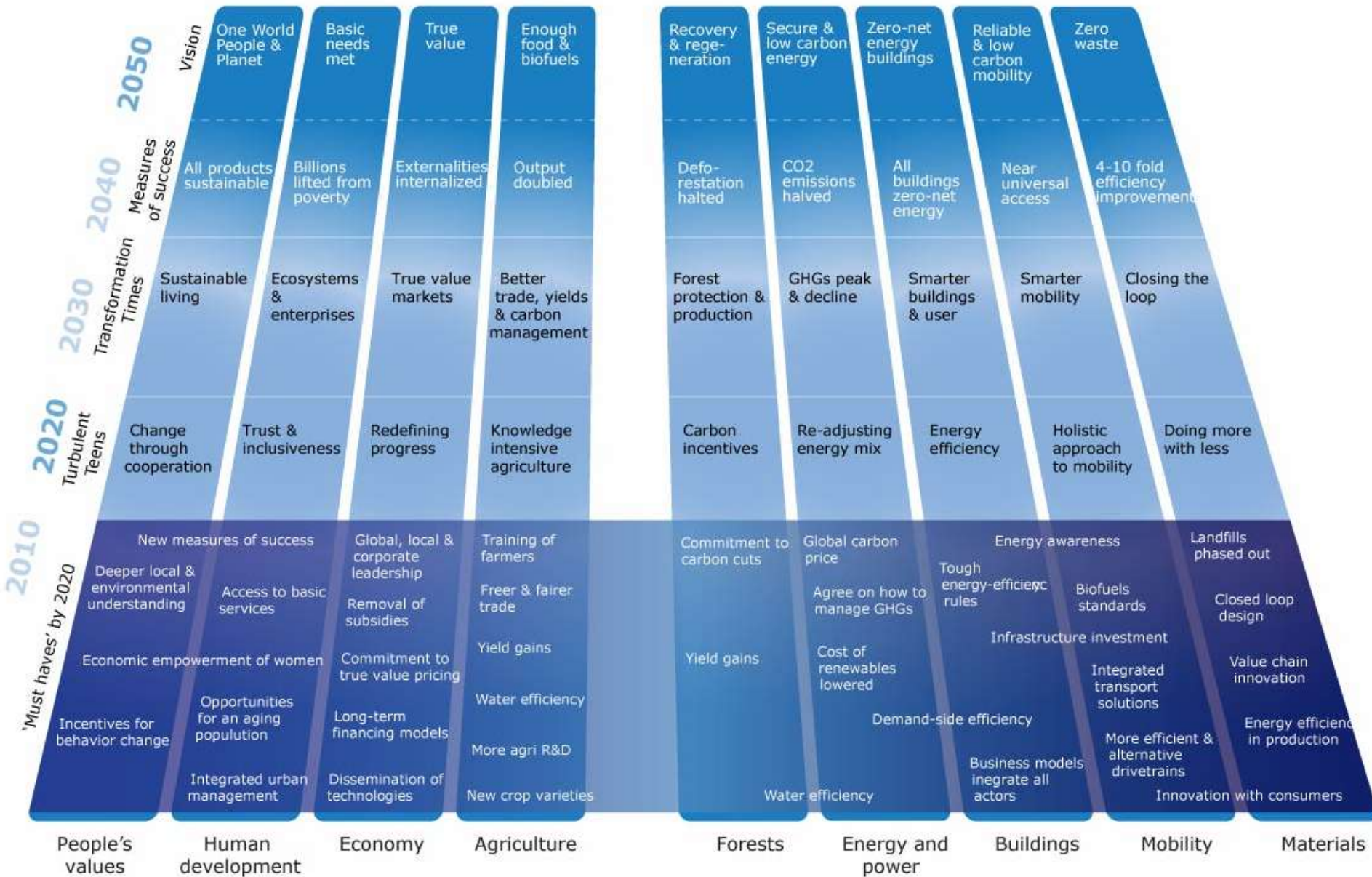
Vision 2050 highlights new and adapted business opportunities



Pathway to 2050



To a sustainable world in 2050



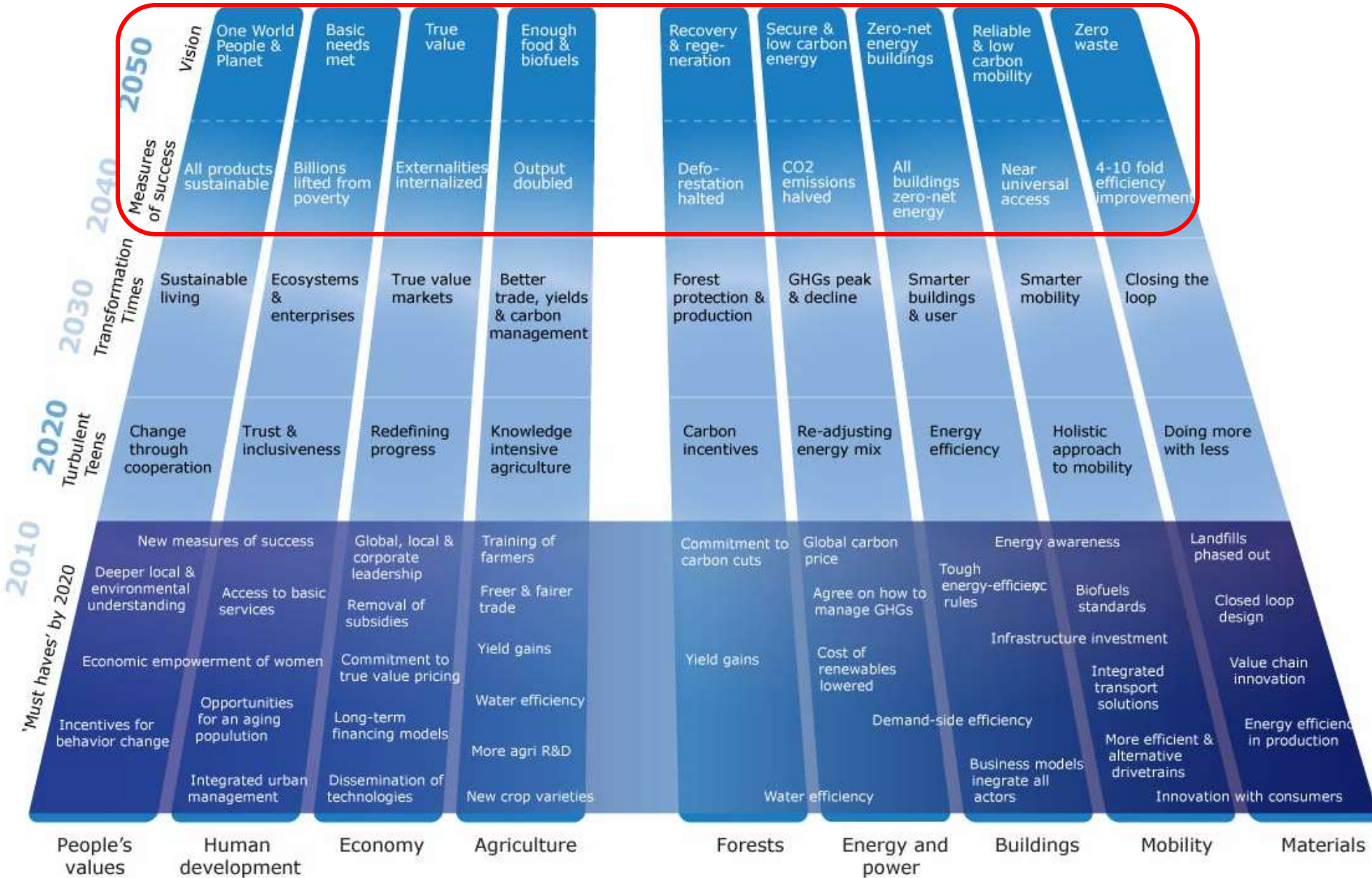
From business-as-usual

To a sustainable world in 2050



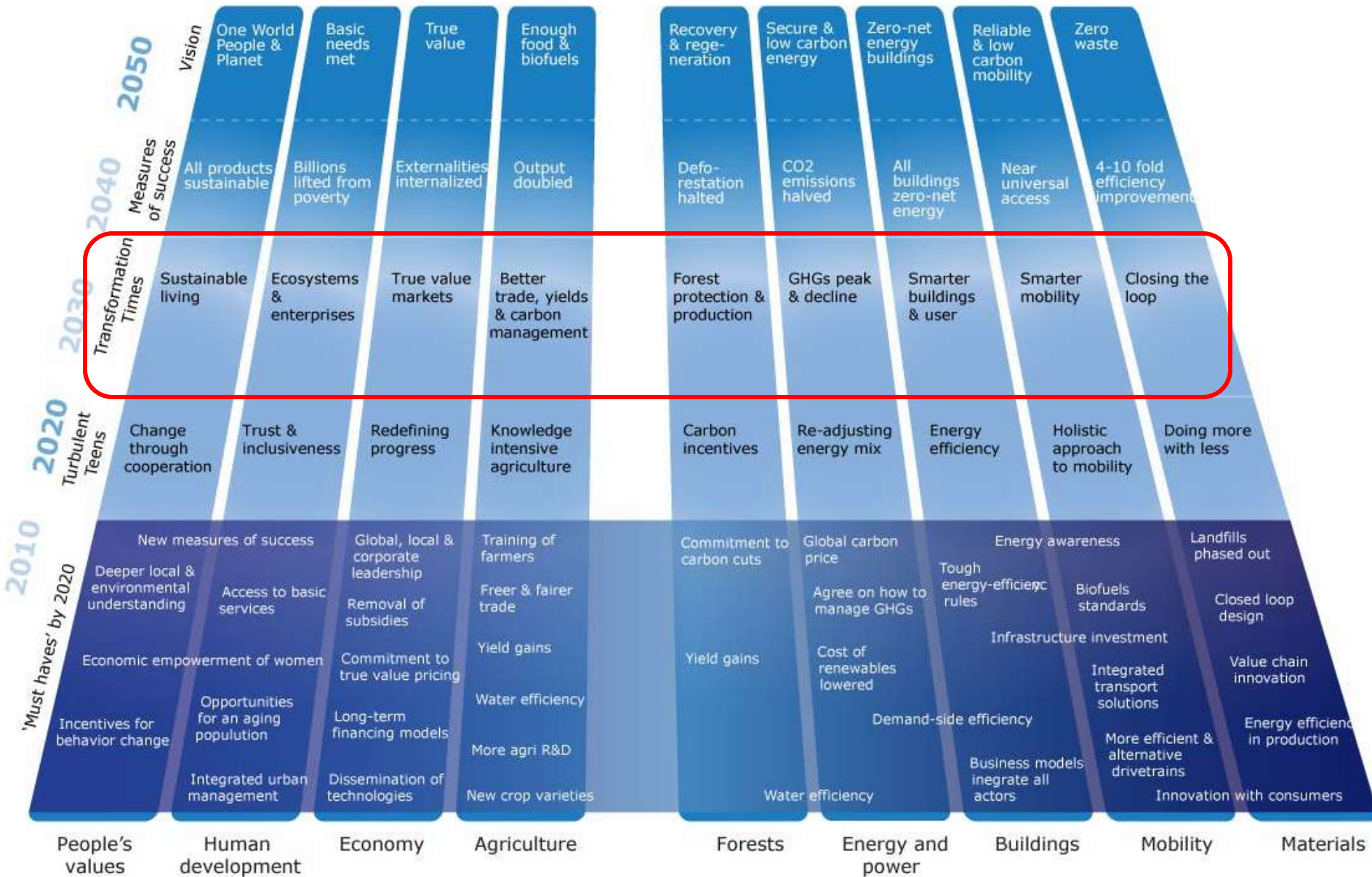
From business-as-usual

To a sustainable world in 2050



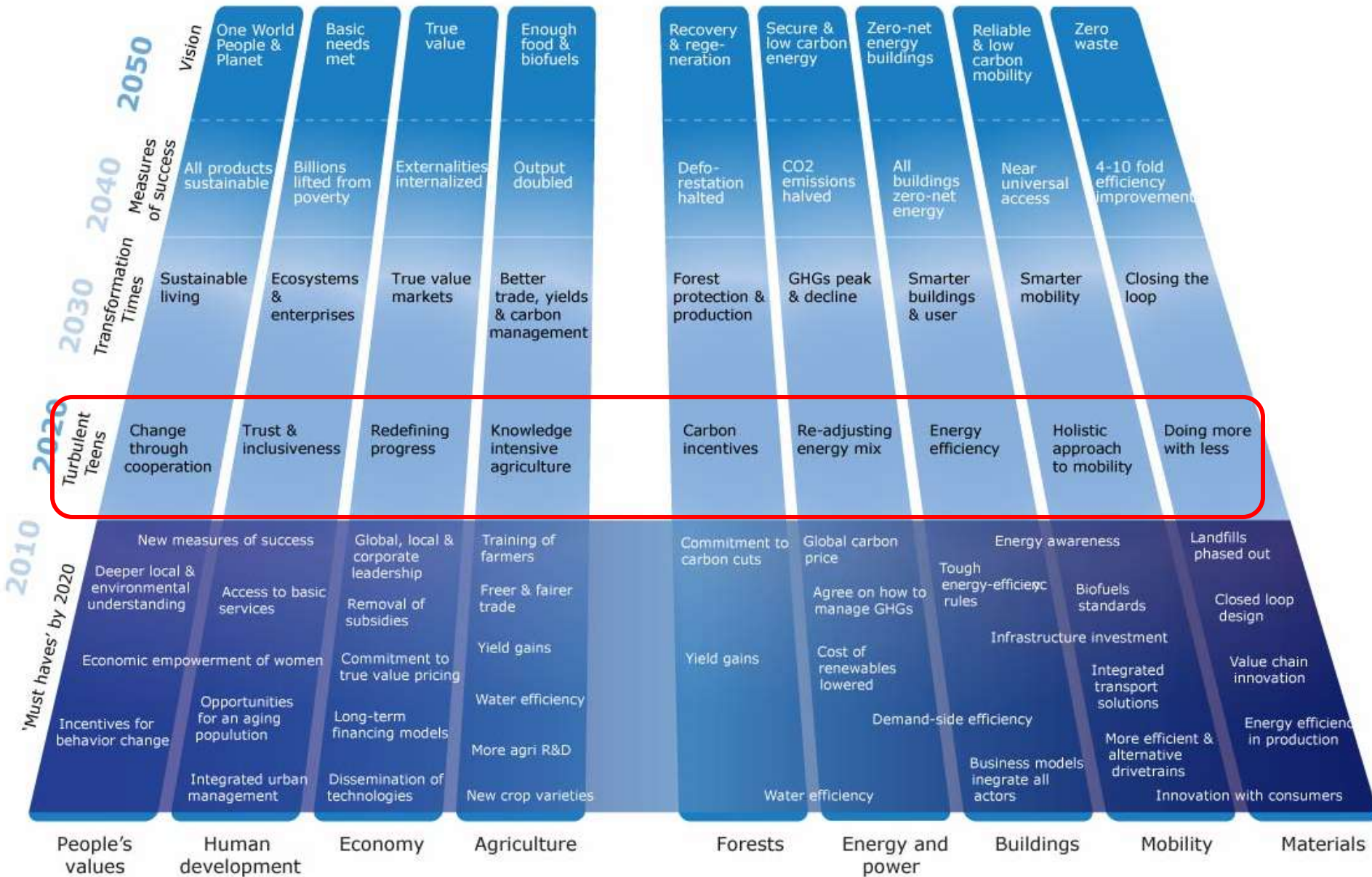
From business-as-usual

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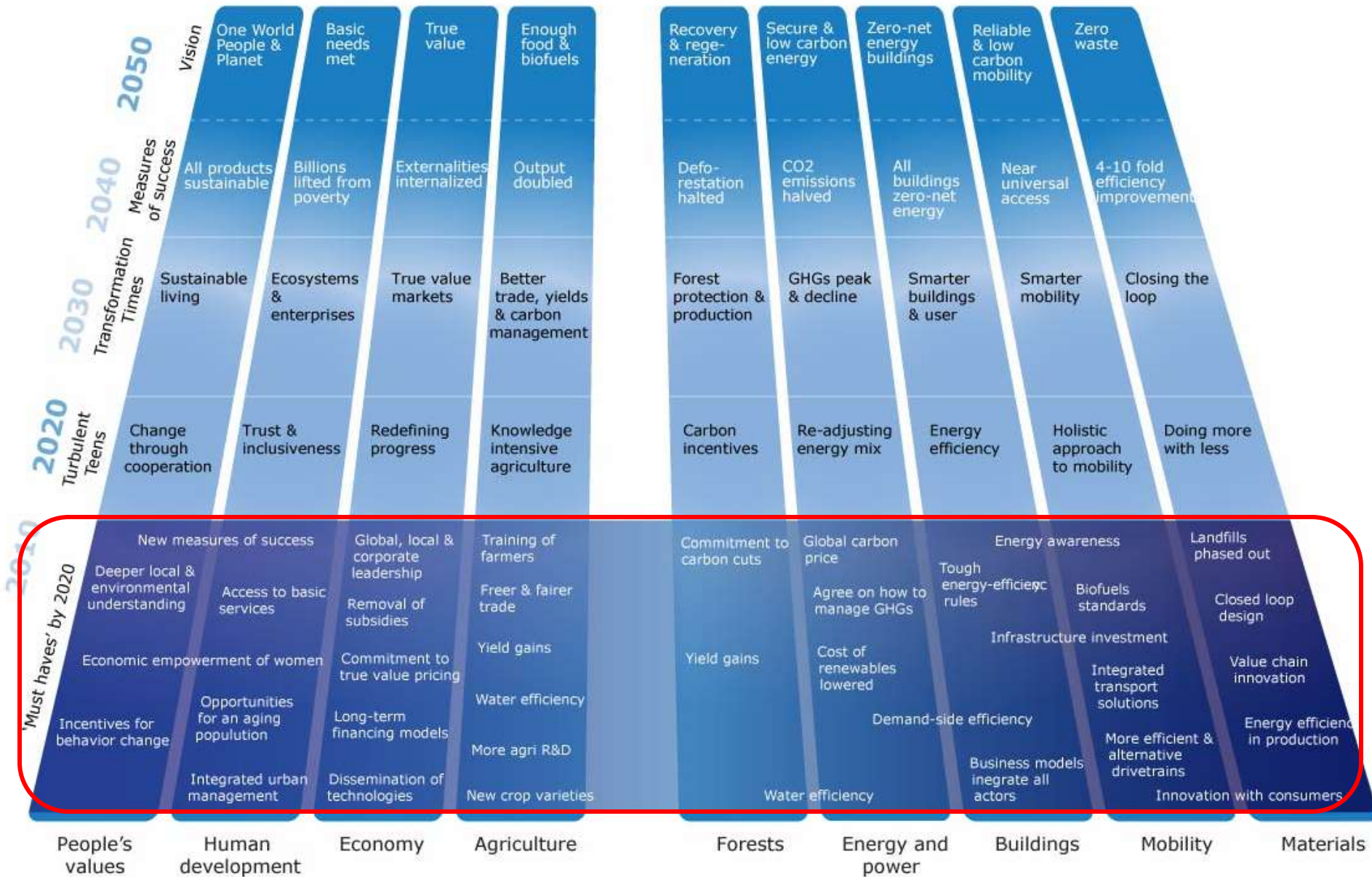
From business-as-usual

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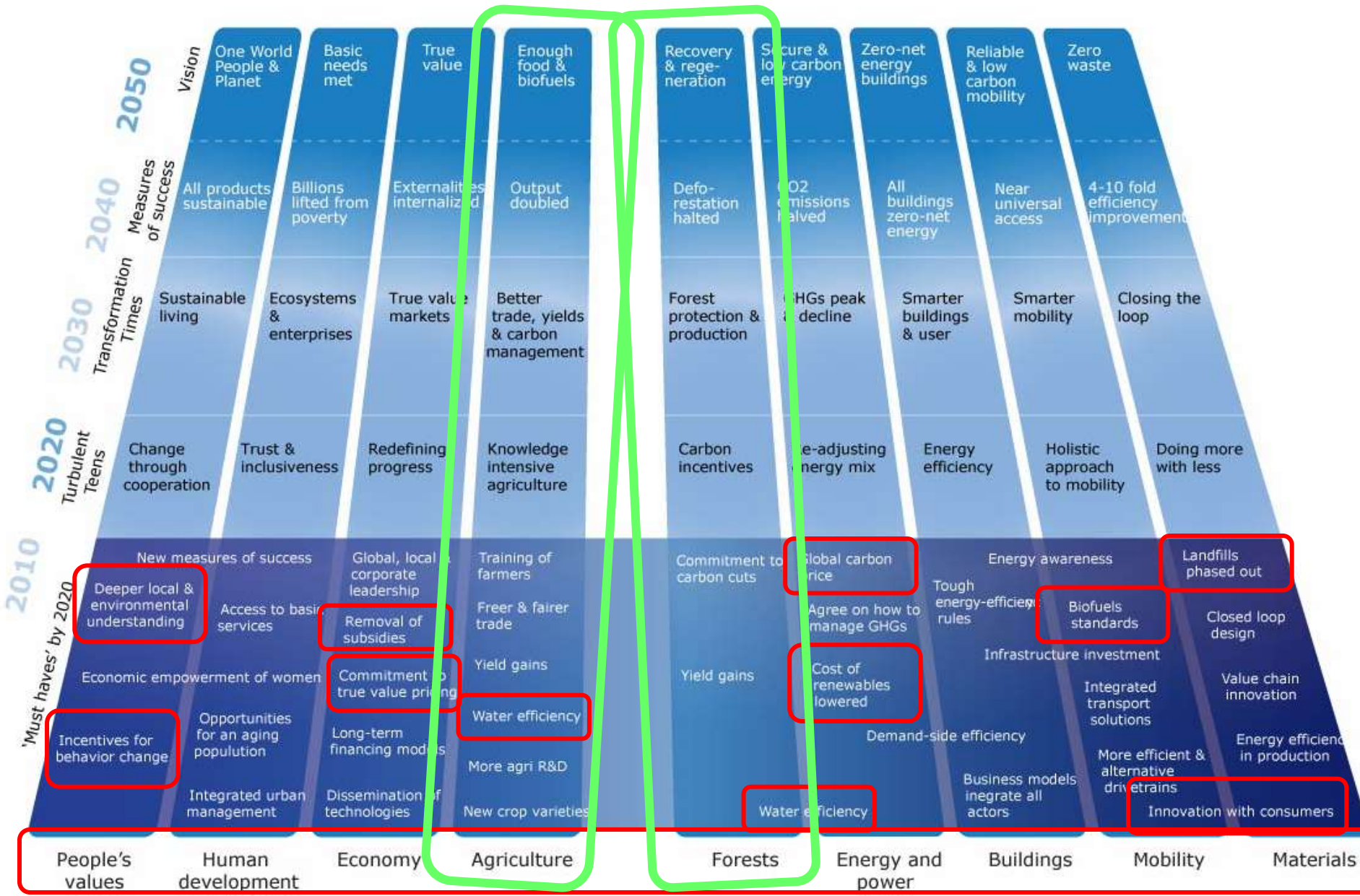


From business-as-usual

To a sustainable world in 2050



From business-as-usual





Agriculture

Vision for 2050

Enough food, water and biofuels through a new Green Revolution

Turbulent teens

Cultivating knowledge-intensive agriculture

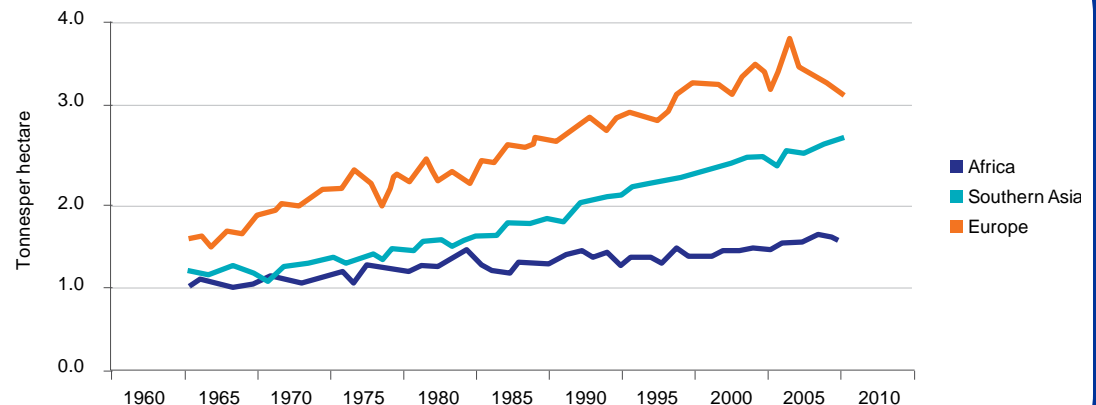
Transformation time

Growth in global trade, crop yield and carbon management



Africa's yield growth has lagged behind other regions

Cereal yield by region – 1960-2010



Source: Ministry of Foreign Affairs of Denmark, *Realising the Potential of Africa's Youth*, 2009 (FAOSTAT)



Forests

Vision for 2050

Recovery and regeneration

Turbulent teens

Carbon incentives drive progress

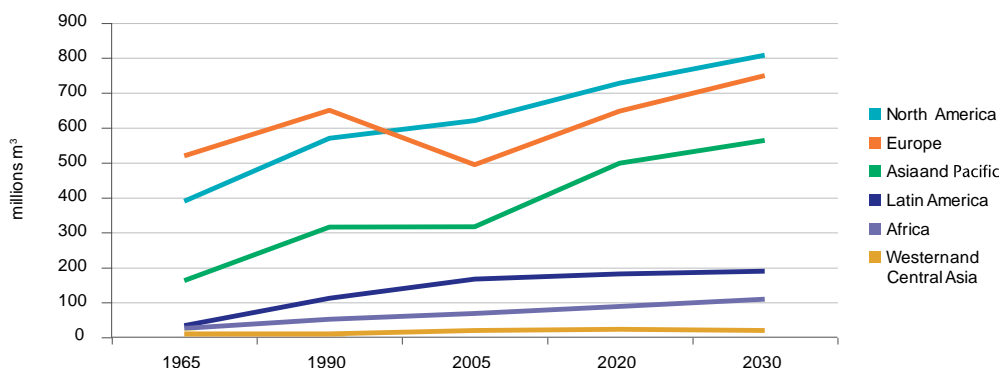
Transformation time

Growing momentum for forest protection and efficient production



Increasing consumption of industrial roundwood

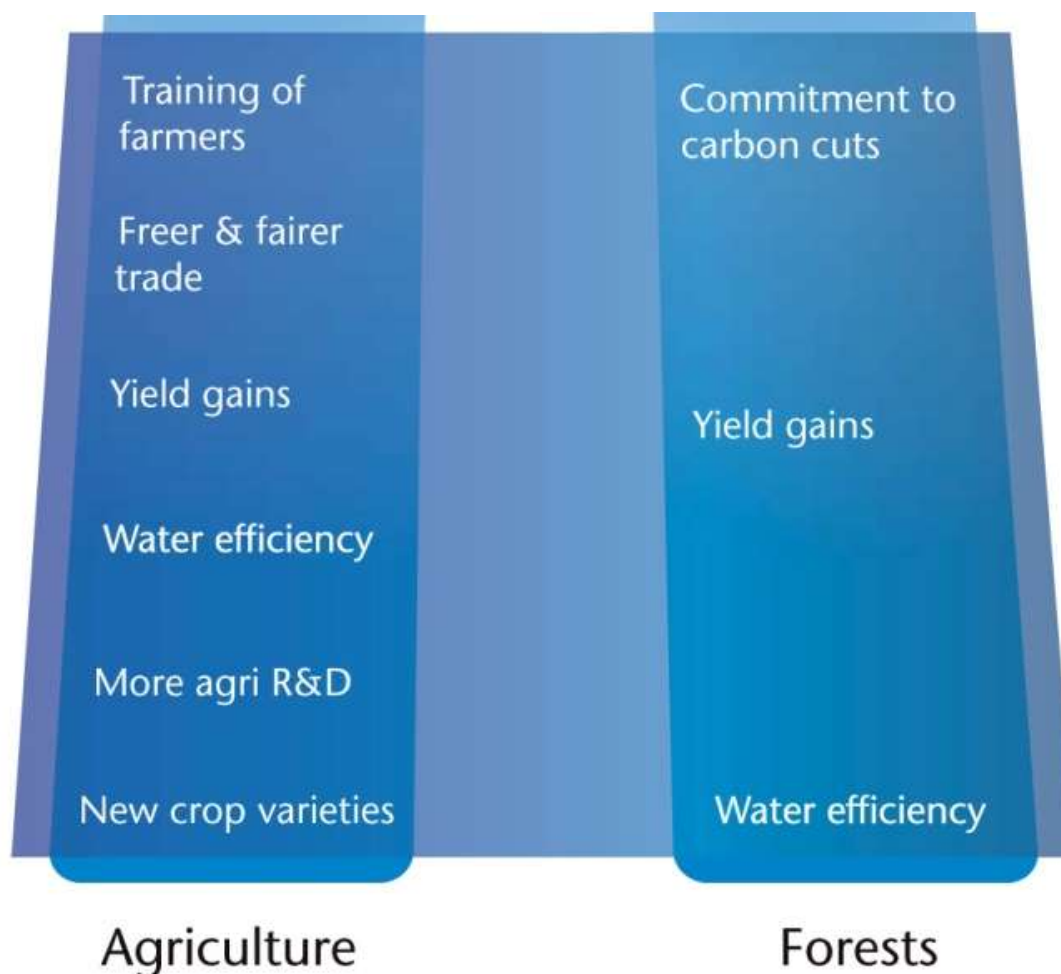
Consumption of industrial roundwood by region – 1965-2030



Source: FAO, *State of the World's Forests 2009*, 2009



Agriculture & Forests – Must-haves by 2020





Agriculture & Forests – Turbulent Teens 2020's

Cultivating
knowledge-
intensive
agriculture

Agriculture

Driving
progress
through carbon
incentives

Forests



Agriculture & Forests – Transformation Time 2030's

Growth in
global trade,
crop yield &
carbon
management

Agriculture

Momentum
grows for
forest
protection &
efficient
production

Forests



Agriculture & Forests – Measures of success 2040's

Agricultural
output
doubled by
improved land
& water
productivity

Agriculture

Deforestation
halted, carbon
stocks in
planted
forest doubled
from 2010

Forests



Agriculture & Forests – Vision 2050's

Enough food
& biofuels
through a
new Green
Revolution

Agriculture

Recovery
&
regeneration

Forests



Vision 2050: Forests Pathway

Turbulent Teens (2010 – 2020)

- Carbon incentives drive progress.
- Deeper global understanding of the crucial role of forests
- Start of implementing REDD plus
- Yield gains from planted forests
- Water efficiency



Vision 2050: Forests Pathway

Transformation Time (2020 – 2050)

- Carbon prices and payments for ecosystems services support alternatives to extensive primary forest clearing
- Consumption of roundwood grows by 50% for building purposes
- Yield gains from planted forests



Vision 2050: Forests Pathway

Vision 2050:

- Crucial role for forests to support a sustainable world
- 30% forest cover of global land area
- +10% carbon sequestered in forests compared with 2010
- Primary forests primarily preserved for ecosystems services with appropriate incentives and market payments
- Yields and harvest from planted forests have increased 3-fold to meet demand for wood, paper and biomass
- Planted forests increased in area by 60%



How WBCSD is using Vision 2050

- Calibrate all our work programs against Vision 2050 “must haves”
- Sustainable Forests Products Industry (SFPI) working group has validated direction and intent of the Forests Path
 - Yield gains *primarily* based on responsibly deployed planted forests, including biotechnology – pulp, paper, packaging, wood, bio-energy, bio-plastics etc
 - Natural forests *primarily* conserved, incentivized by PES markets such as REDD+
 - Supports and resources The Forests Dialogue 4F’s dialogue
 - Working with WWF on part of its Living Forests Campaign
- Food, Water & Land use System solution being scoped by Ecosystems Focus Area
 - Food and Fiber security for 9 billion from sustainable agriculture and forestry systems – framework conditions + business solutions
- Water Project looking at sustainable water management, eco-efficient use, valuation and interdependence/linkages e.g. water & energy, water & agriculture & forestry