SUSTAINABILITY & ENTREPRENEURSHIP

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SUSTAINABILITY EXPERT, BEF LITHUANIA

Baltic Environmental Forum BEF Lithuania



Baltic Environmental Forum,

Lithuania

PROTECTING
NATURE NOT FROM
PEOPLE, BUT
TOGETHER WITH
PEOPLE





Our topics







- Nature conservation & biodiversity protection
- Agriculture & rural development
- Chemicals & industrial pollution
- Consumer education
- Corporate responsibility



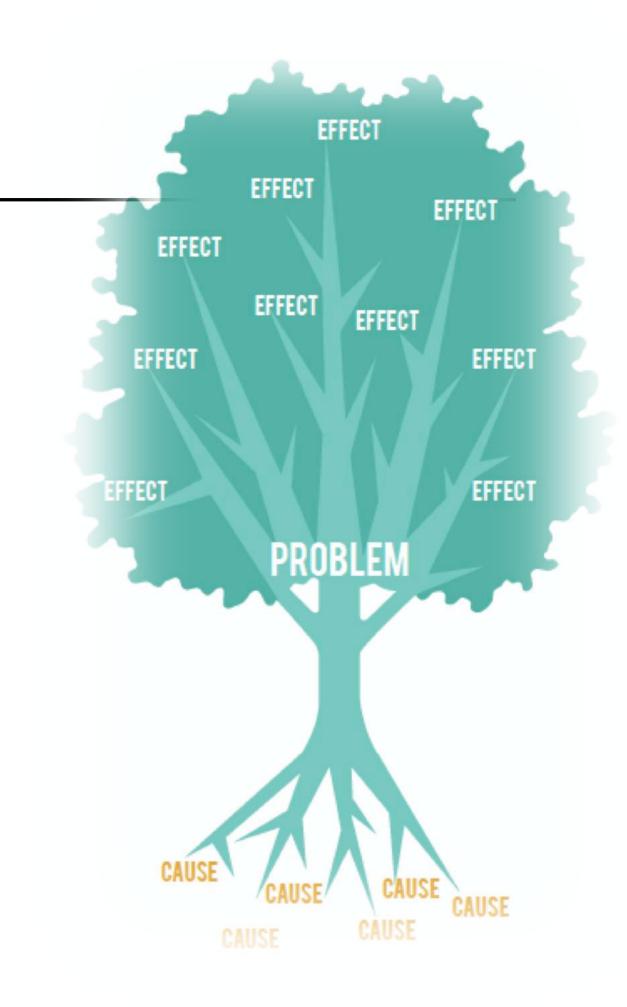


ME and sustainability

- ✓ Find the person you know at least.
- ✓ Discuss: "what's my personal contribution to sustainability?"
- √Tell you pair's one most sustainable habit.

SUSTAINABILITY & ENTREPRENEURSHIP

Futurepreneurs is all about creating a business that makes an impact.



THE ANTHROPOCENE: ARE WE OVERWHELMING THE FORCES OF NATURE?













We transfer 57 000 mln. t of rocks
- 3 times more than river floe does (22 000 mln. t) (Price et al 2011).

NEW GLOBAL CONTEXT

Rising risks:

Globalisation v.s. glocalisation

Demografic changes

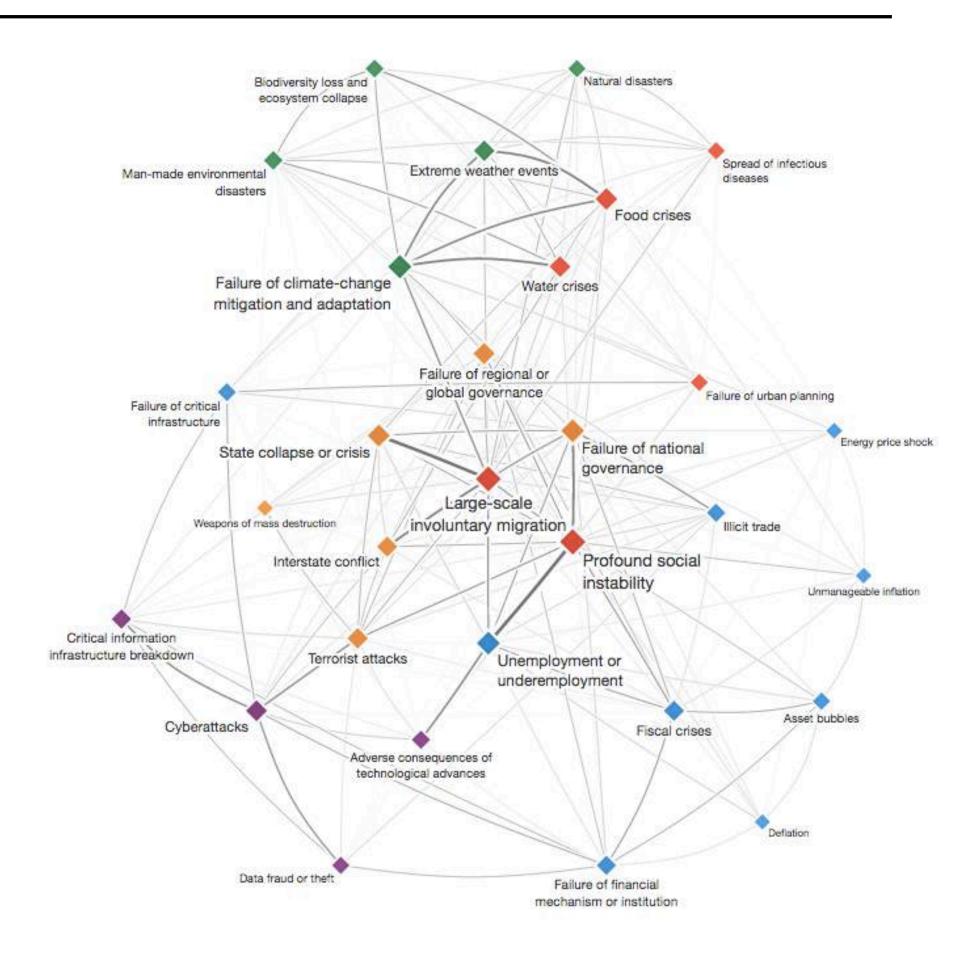
Urbanisation

Digitalisation

Environmental degradation

Impact of chemicals on health

WELCOM TO ANTHROPOCE



WEF, Global Risks report, 2017

TOP 5 GLOBAL RISKS

Technological

Societal

Economic

2007

Breakdown of critical information infrastructure

Chronic disease in developed countries

Oil price shock

China economic hard landing

Asset price collapse 2017

Extreme weather events

Large-scale involuntary migration

Major natural disasters

Large-scale terrorist attacks

Massive incident of data fraud/theft Environmental

Societal

Geopolitical

Technological



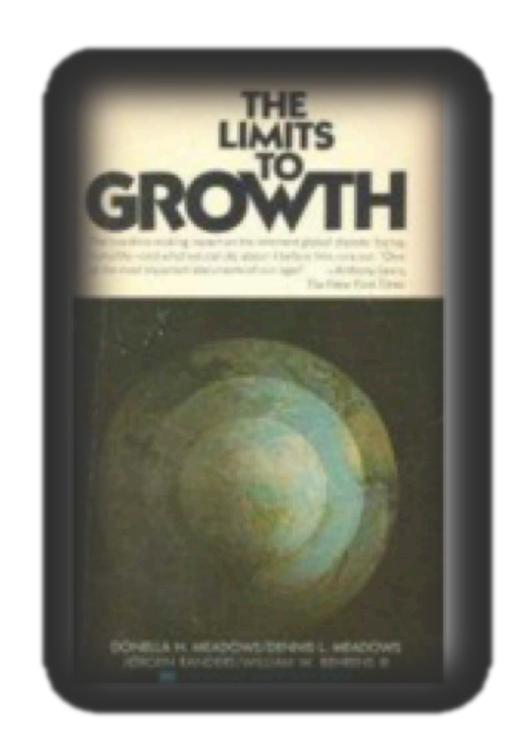
Pesimist is

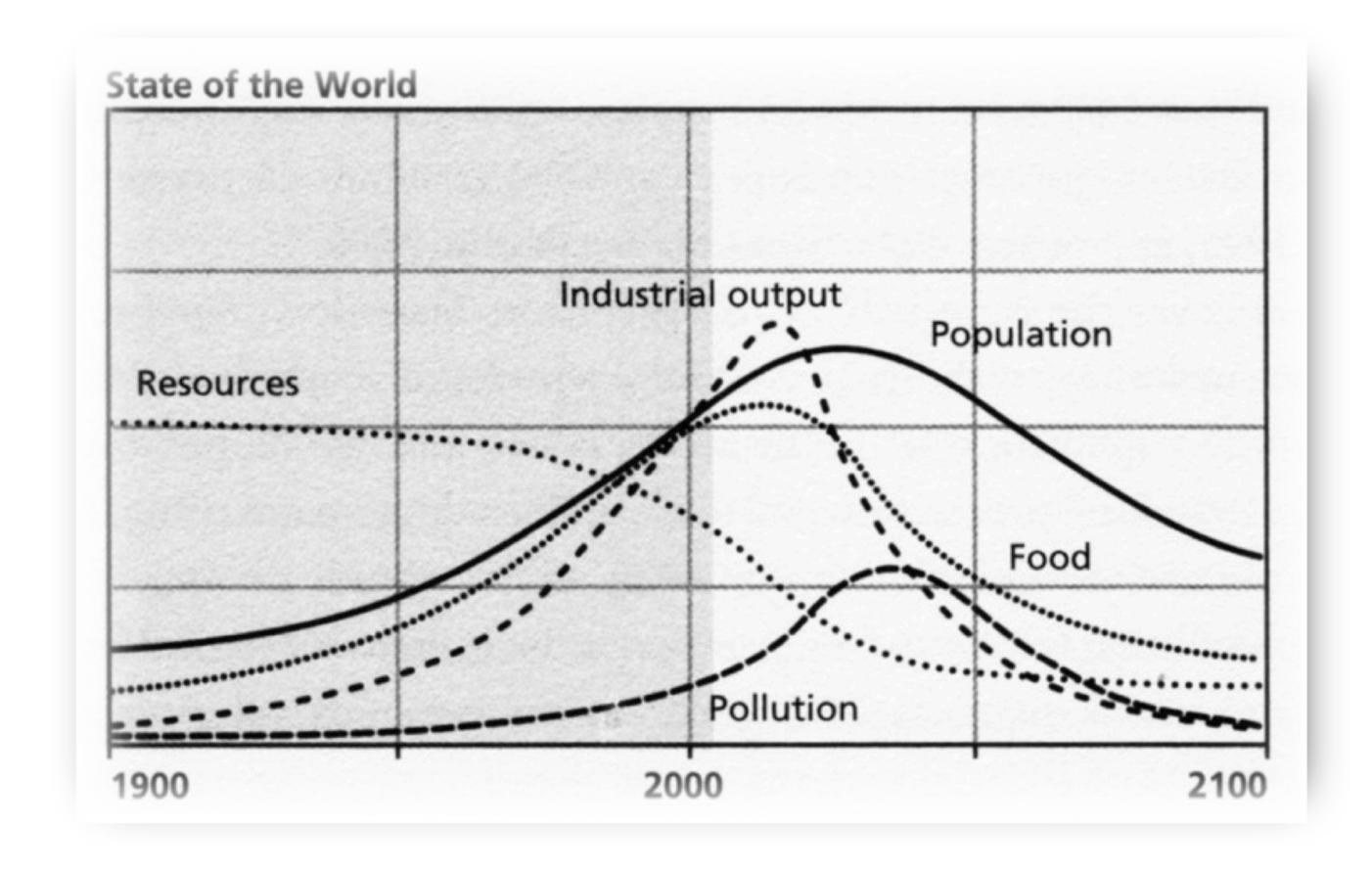
a well informed optimist....

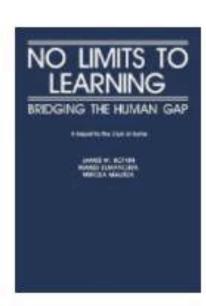


THE CLUB OF ROME









NO LIMITS TO LEARNING 1979

A Standing THE CORE OF SCHOOL SERVICES AND PRODUCES AND PRODUCES OF STREET, NAME AND POST OF STR

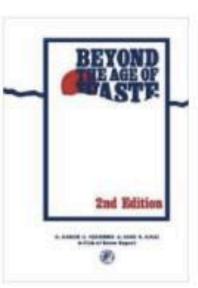
A POSTURAL AND COURSE STORE SAIN

GROWTH 1972

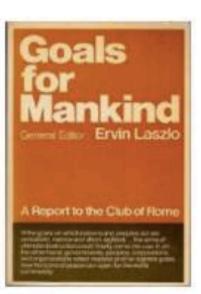


Recommendations by Bluefills and E-Whole

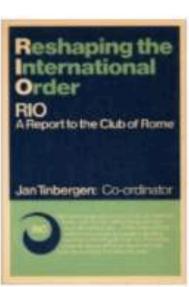
ENERGY: THE COUNTDOWN 1979



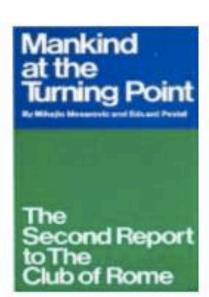
OF WASTE 1978



GOALS FOR MANKIND 1977



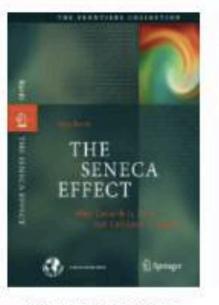
RESHAPING THE



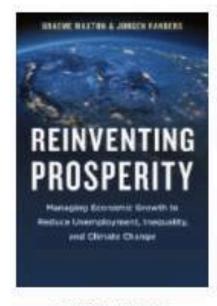
THE MANKIND AT THE



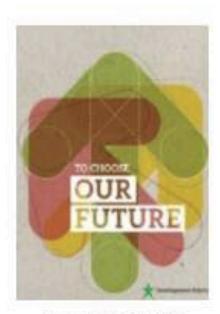
2017



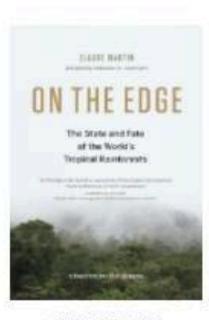
THE SENECA EFFECT



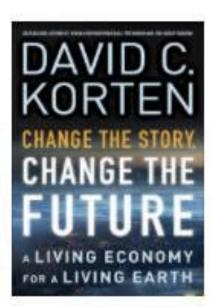
PROSPERITY 2016



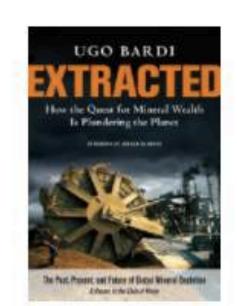
TO CHOOSE OUR FUTURE 2015



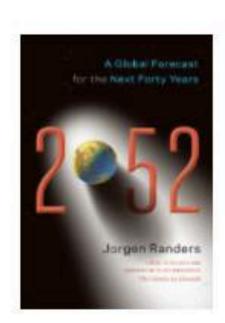
ON THE EDGE 2015



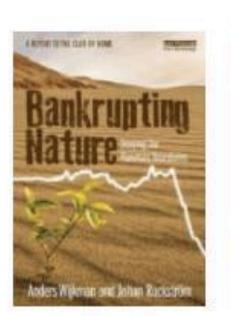
CHANGE THE STORY, CHANGE THE FUTURE 2015



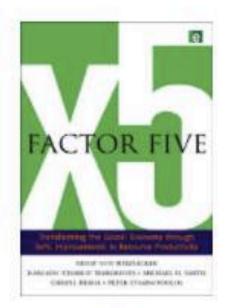
EXTRACTED 2014



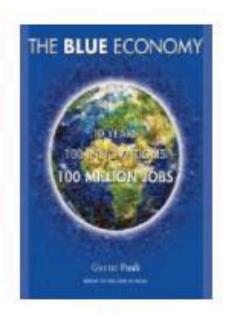
2052 2012



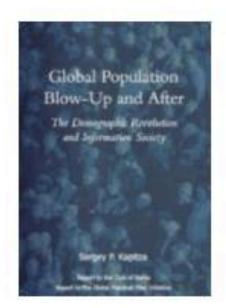
BANKRUPTING NATURE 2012



FACTOR FIVE 2010



THE BLUE ECONOMY 2010

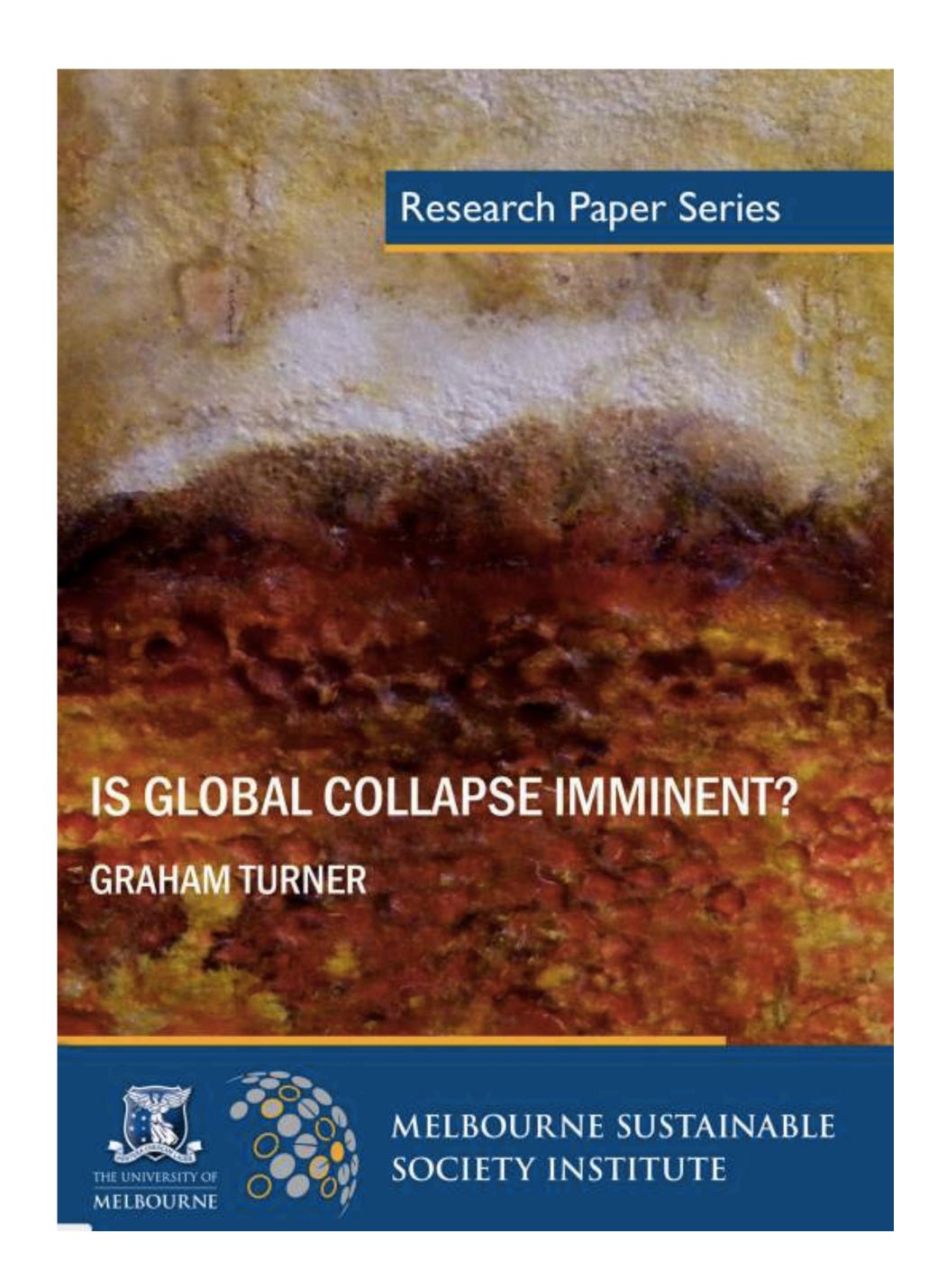


GLOBAL POPULATION BLOW-UP AND AFTER 2006

The club of Rome

"Our shared wellbeing on a healthy planet demands a rethinking of reigning philosophies and a new enlightenment that could seek inspiration from old traditions."

Ernst Ulrich von Weizsäcker, Club of Rome, "Come on!"



The Club of Rome

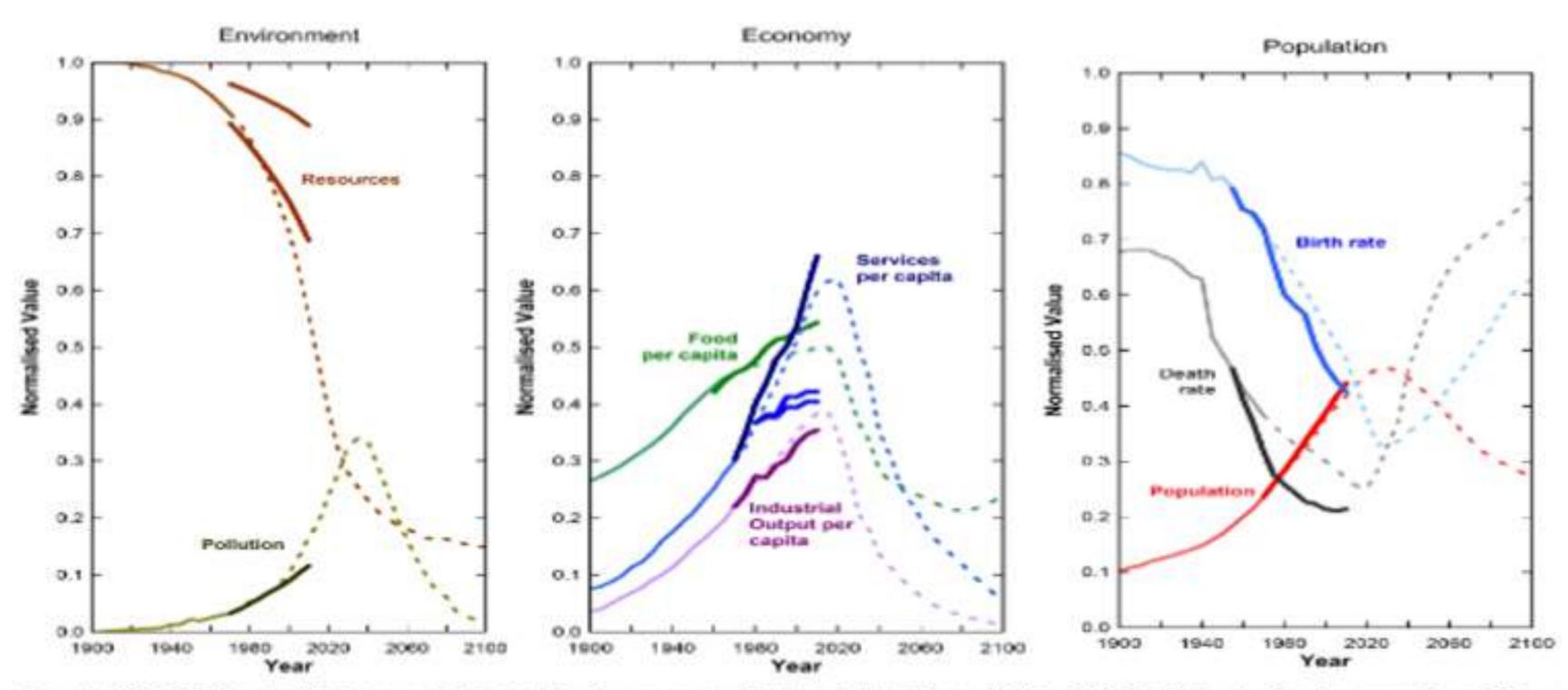


Figure 1. LTG BAU (Standard Run) scenario (dotted lines) compared with historical data from 1970 to 2010 (solid lines)—for demographic variables: population, crude birth rate, crude death rate; for economic output variables: industrial output per capita, food per capita, services per capita (upper curve: electricity p.c.; lower curves: literacy rates for adults, and youths [lowest data curve]); for environmental variables: global persistent pollution, fraction of non-renewable resources remaining (upper curve uses an upper limit of 150,000 EJ for ultimate energy resources; lower curve uses a lower limit of 60,000 EJ [Turner 2008]).

SUSTAINABILITY AND POLITICS

Syria drought and the civil war

JOBNAME: WCAS 00100 2014 PAGE: 1 SESS: 8 OUTPUT: Tue Mar 11 18:13:26 2014 Total No. of Pages: 10 /ams/wcas/0/wcas/01300059

MONTH 2014 GLEICK

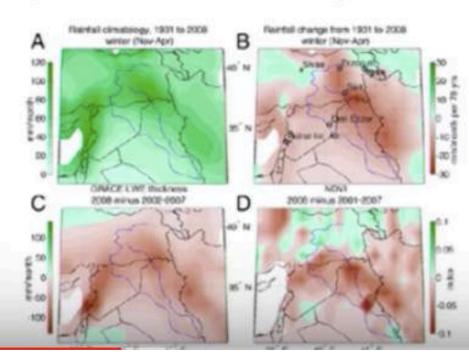
Water, Drought, Climate Change, and Conflict in Syria

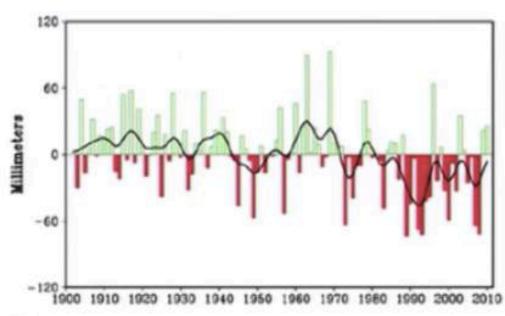
PETER H. GLEICK

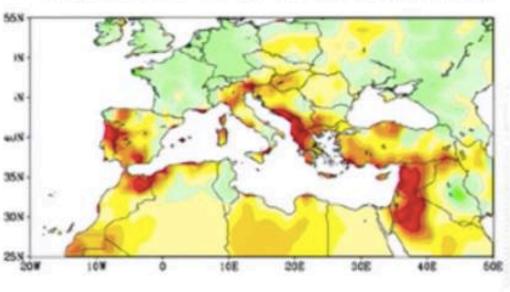
Pacific Institute, Oakland, California

Climate change in the Fertile Crescent and implications of the recent Syrian drought

Colin P. Kelley^{a,1}, Shahrzad Mohtadi^b, Mark A. Cane^e, Richard Seager^e, and Yochanan Kushnir^e







2018 02 13 14:00

Current World Population

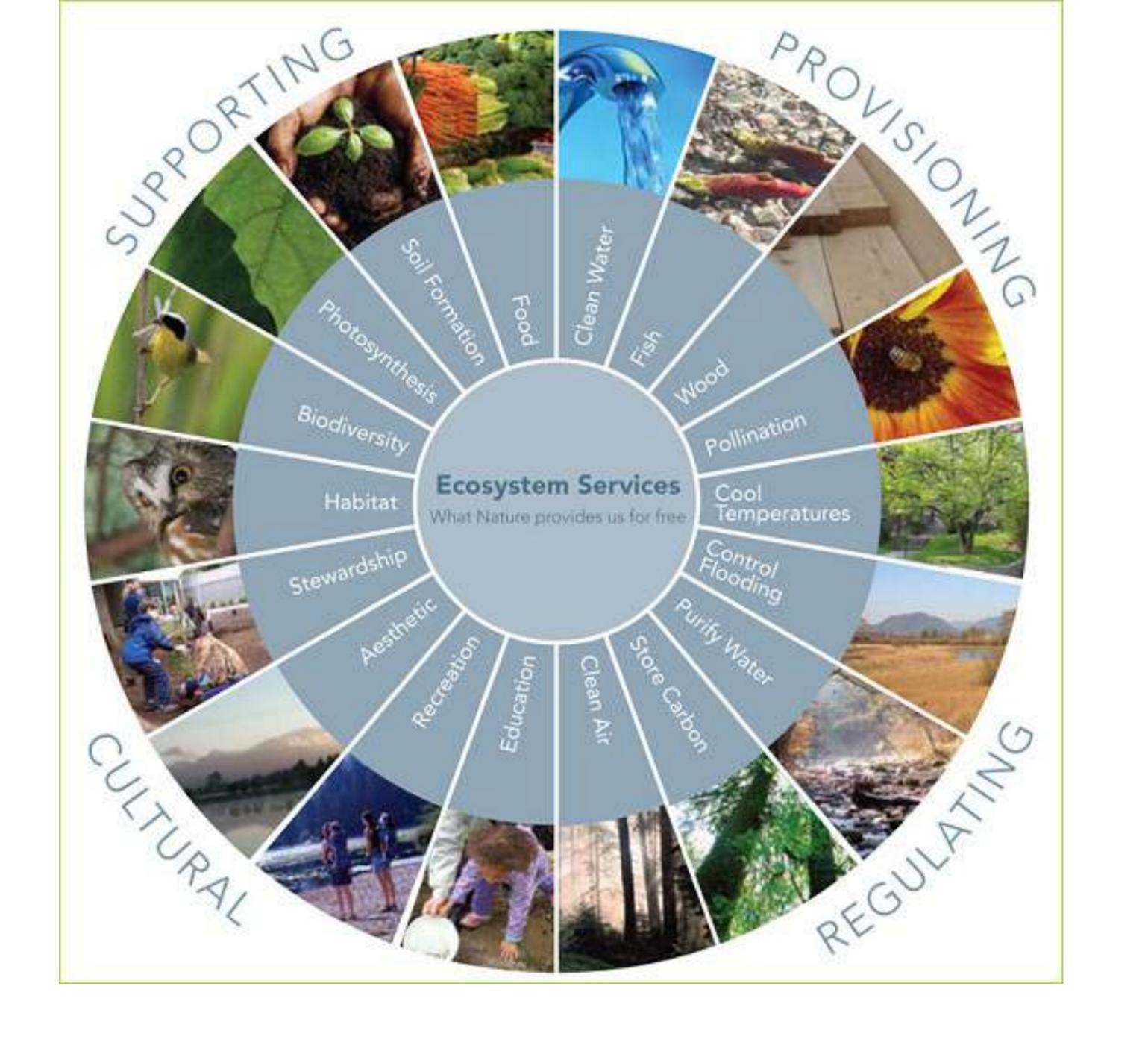
7,601,683,964

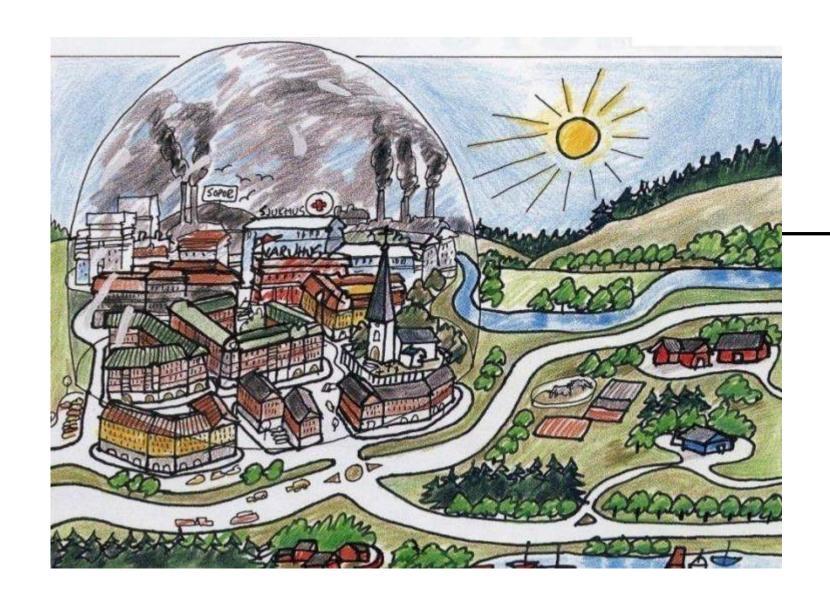
view all people on 1 page >

TODAY	THIS YEAR
Births today	Births this year
224,729	16,816,069
Deaths today	Deaths this year
93,081	6,965,086
Population Growth today	Population Growth this year
131,648	9,850,983











Overstepping Ourselves

As our Ecological Footprint continues to exceed Earth's biocapacity, we overdraw from our future.



74% of biocapacity



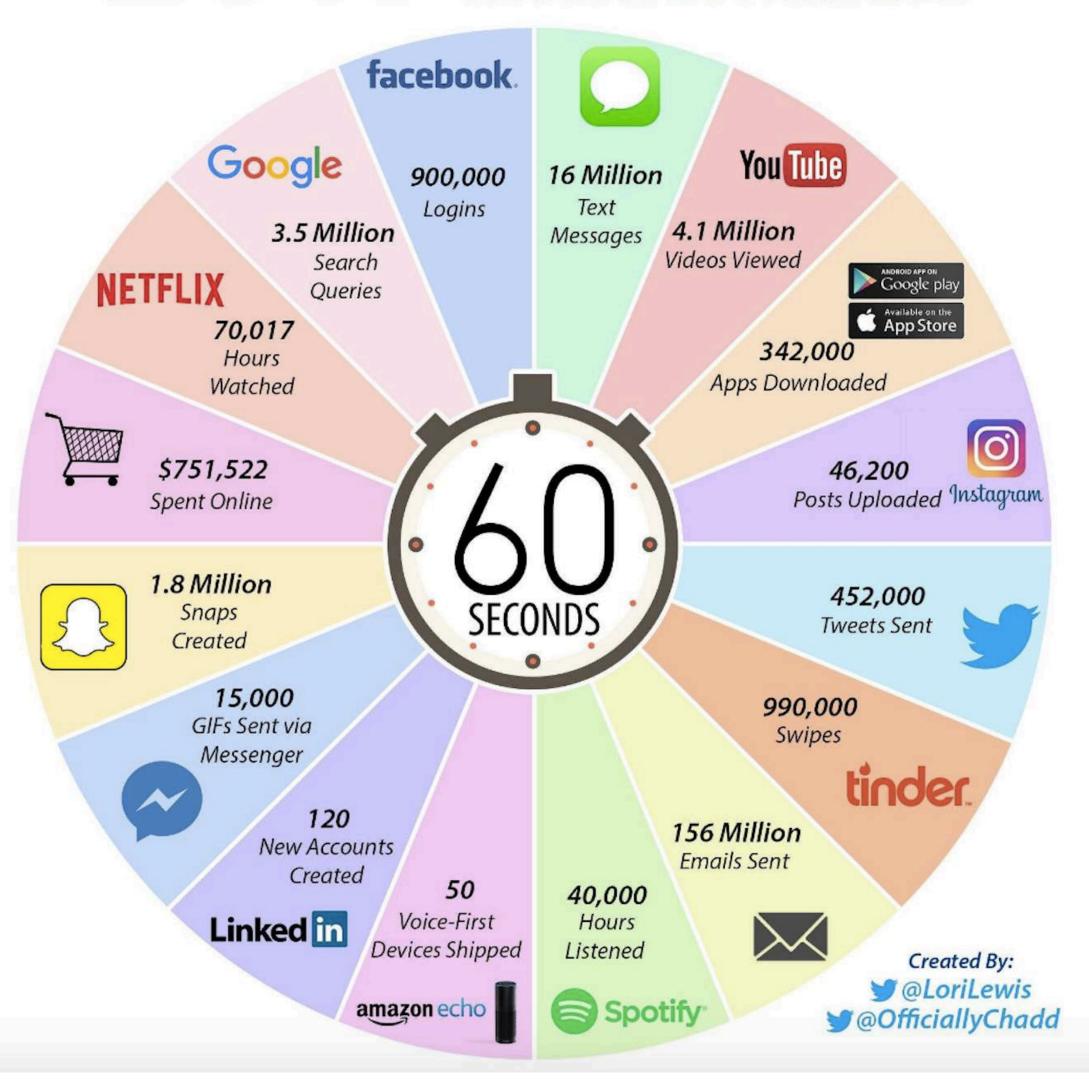
114% of blocapacity



156%

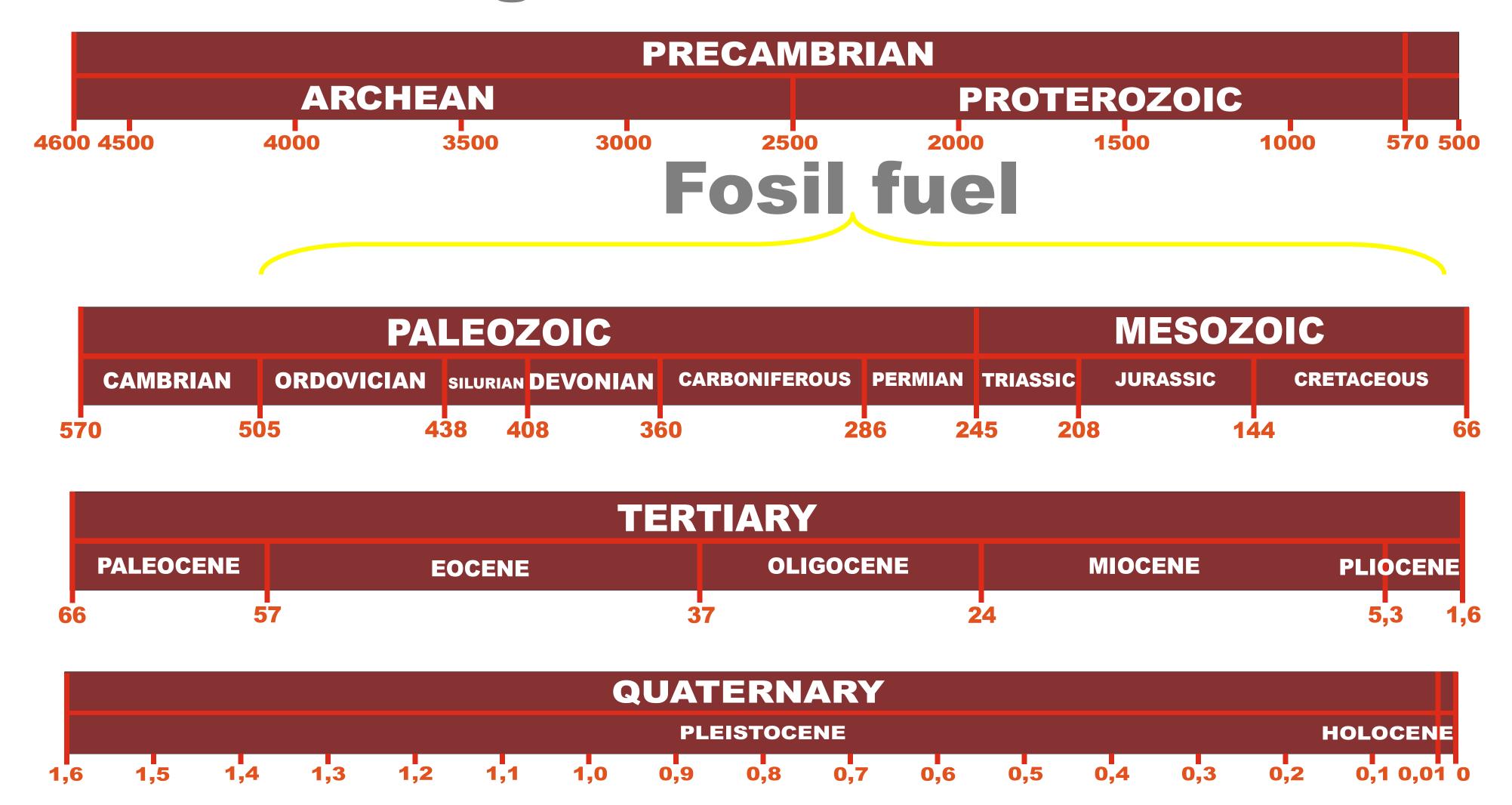
Source: Global Footprint Network, Earth Overshoot Day, 2012

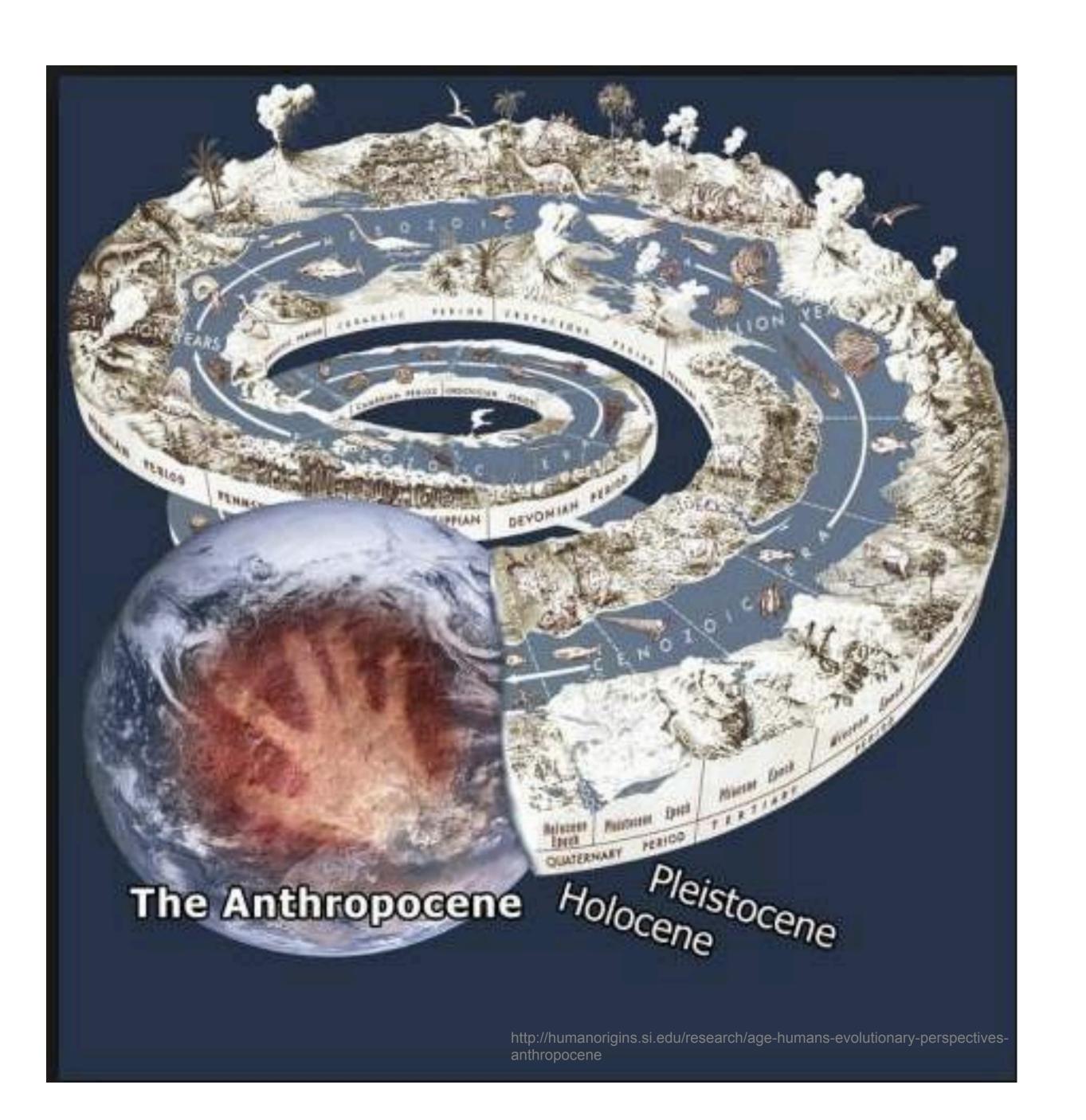
2017 This Is What Happens In An Internet Minute



World Economic Forum (https://www.weforum.org/agenda/2017/08/what-happens-in-an-internet-minute-in-2017/)

Geological time scale





SUSTAINABILITY

Dictionary







×

sustainable

adjective sus tain able \se

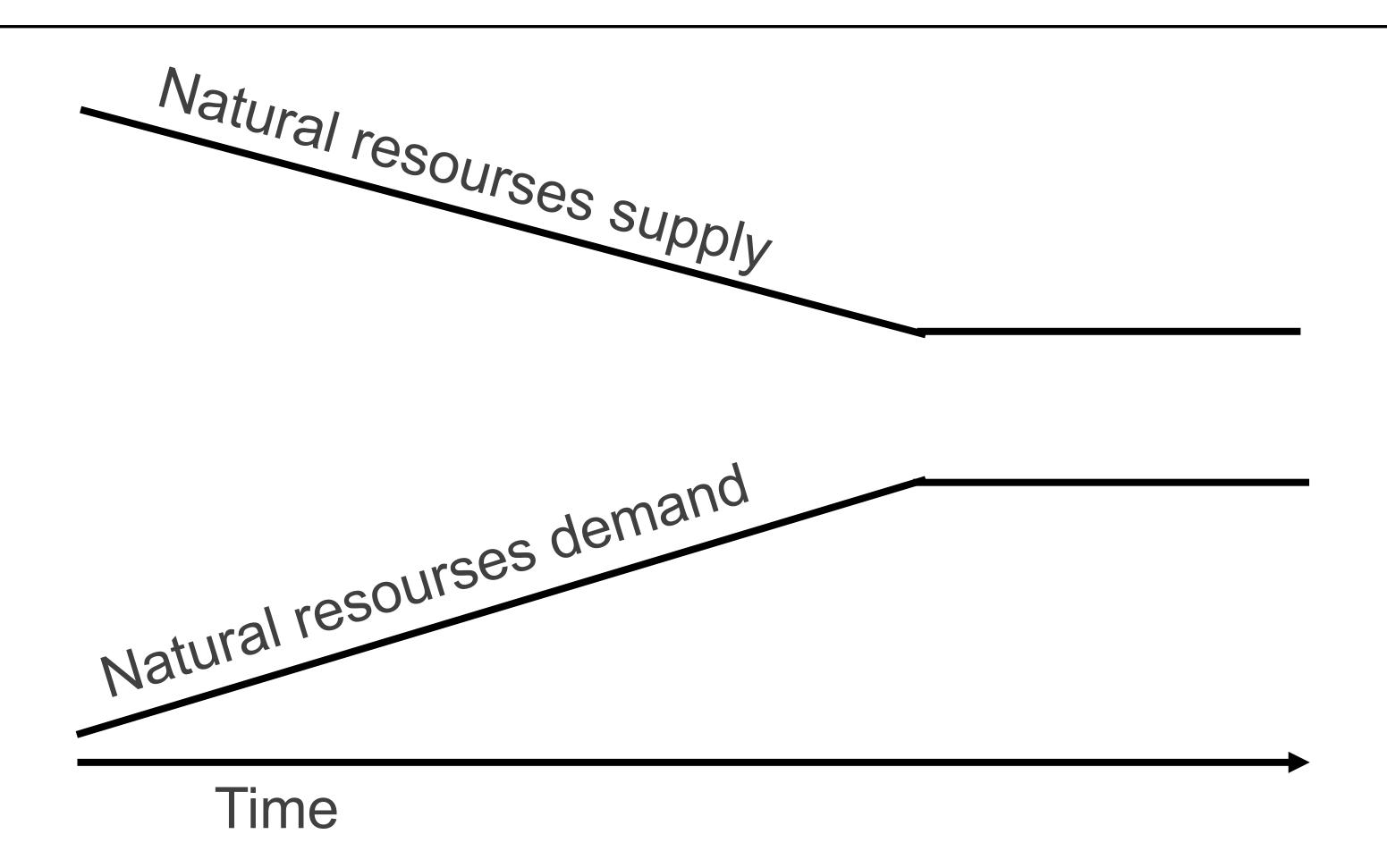
Sustainable is currently in the top 1% of lookups and is the 63rd most popular word on Merriam-Webster.com.

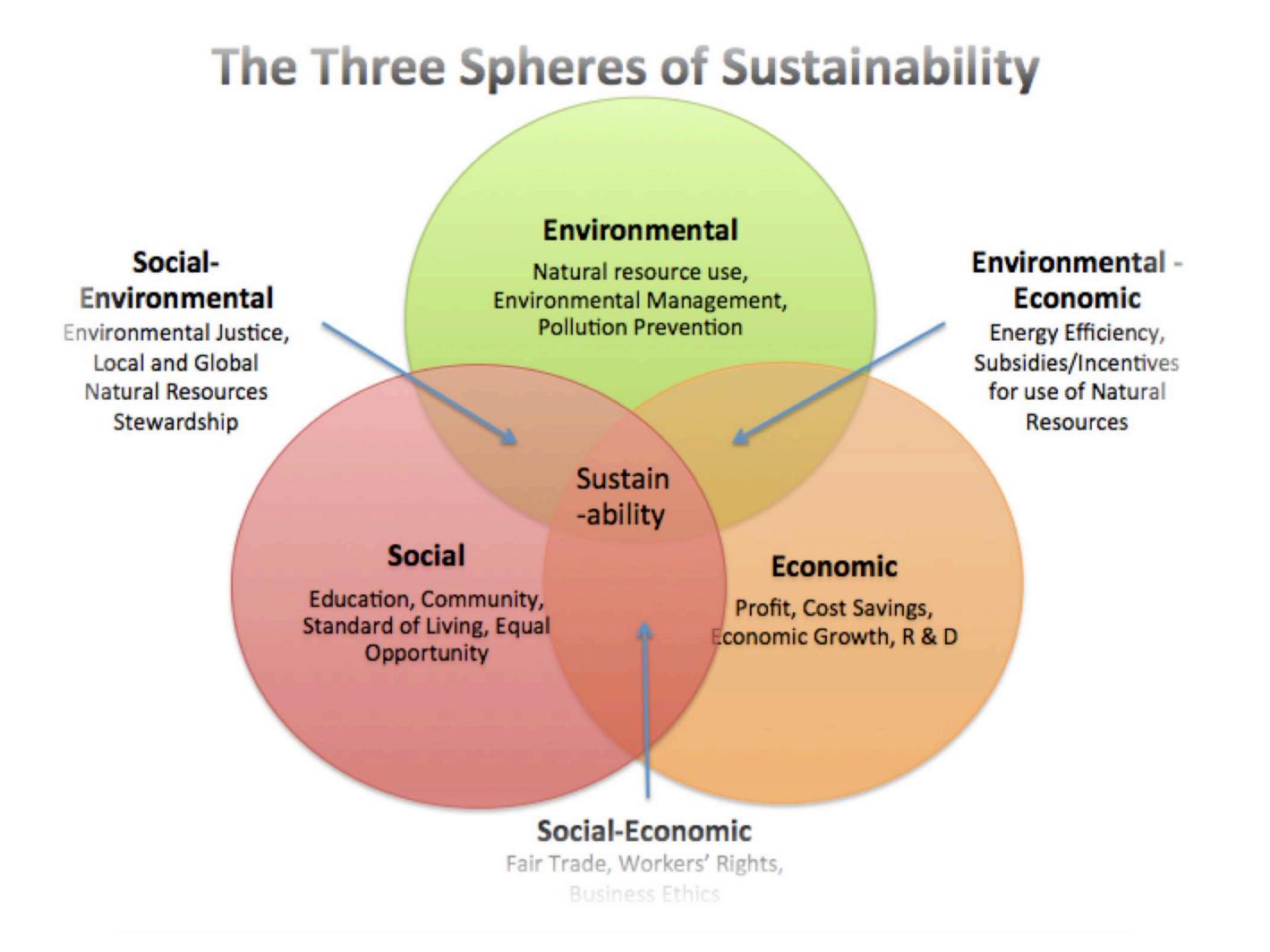
- : able to be used without beir
- : involving methods that do no resources
- : able to last or continue for a long time

Confused about Sustainability?



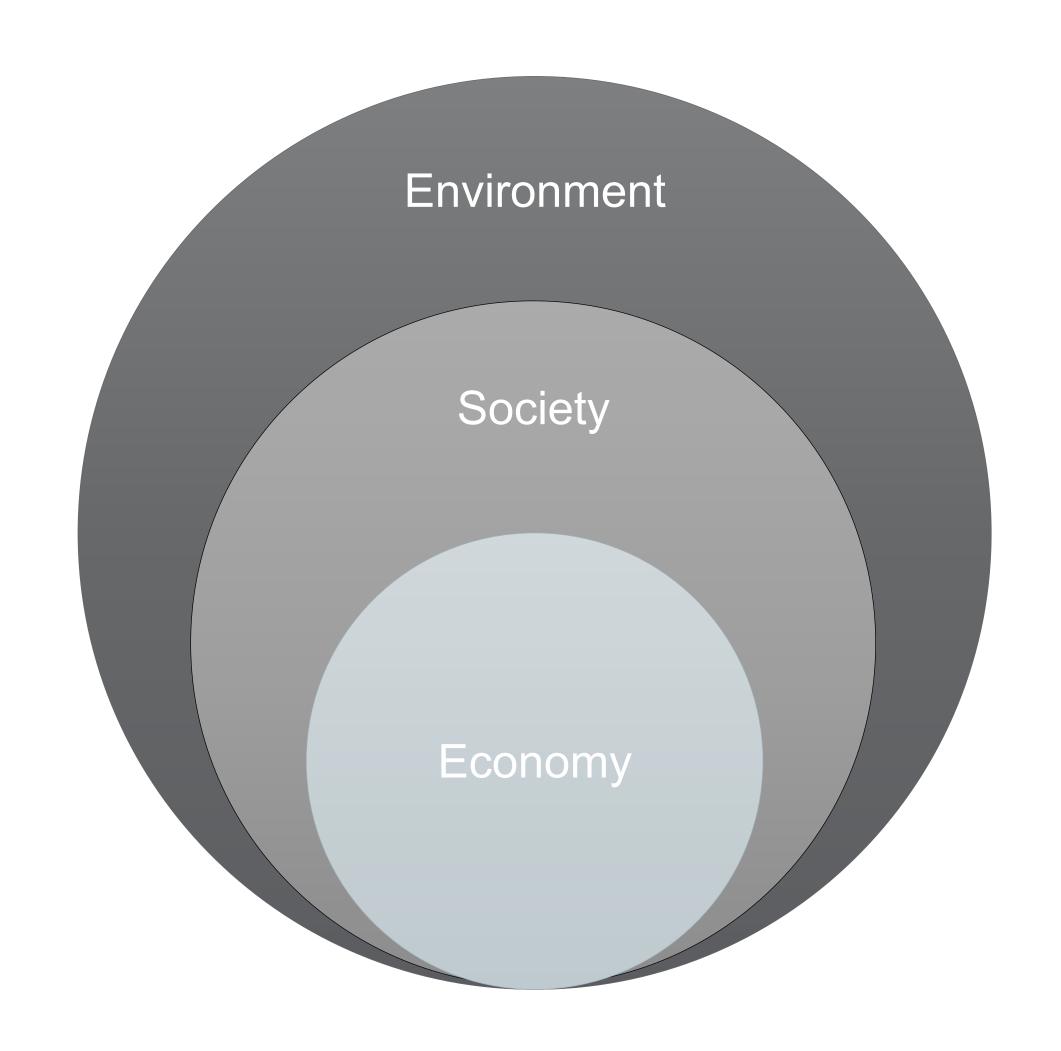
Sustainable development



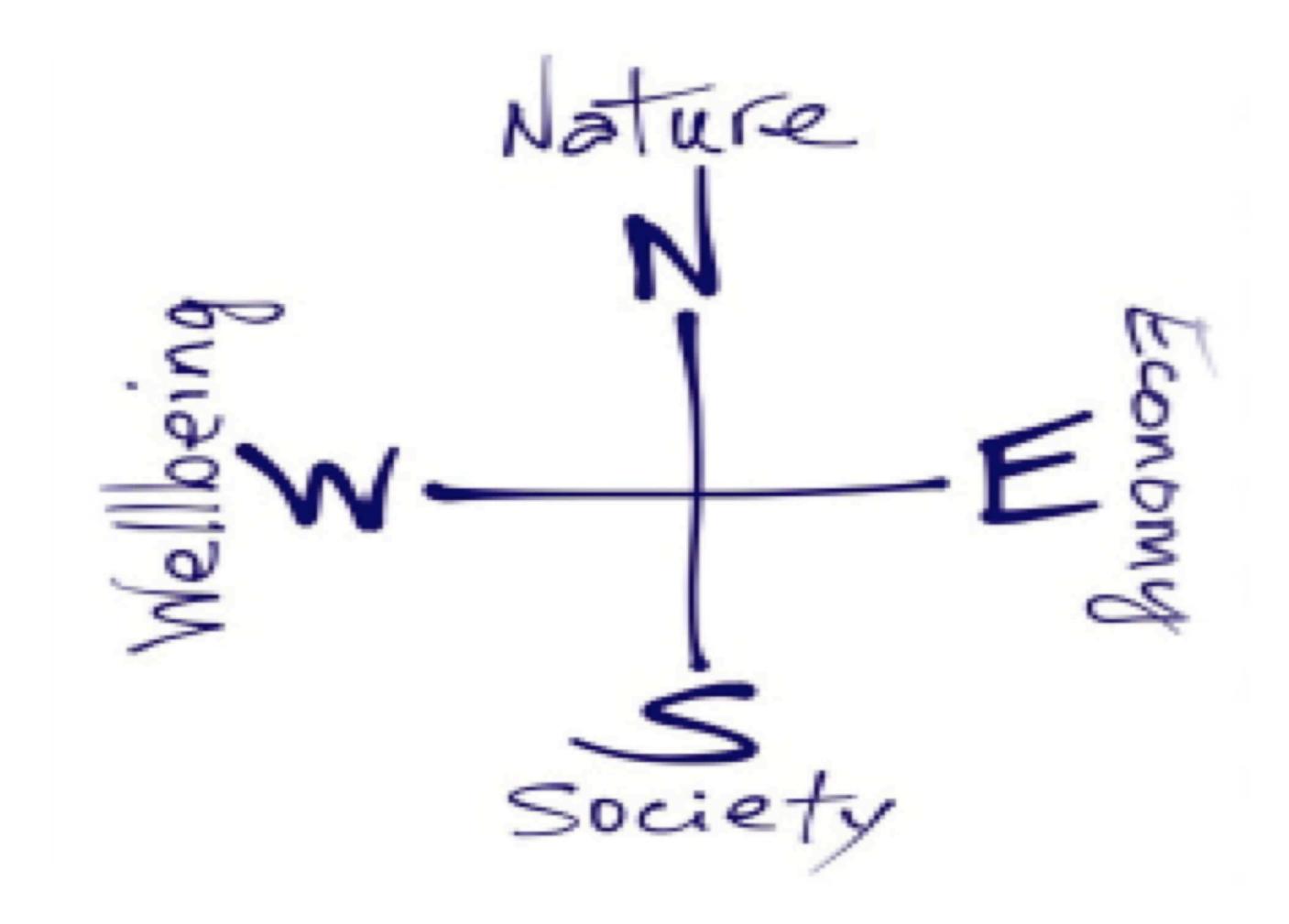


Source: www.newsustainabilityinc.com

Real sustainability



"if sustainability is everything, maybe it's nothing?" Naess (2001)



Alan AtKisson, Sustainability is for everyone, 2013

The Sustainability Compass

A tool for understanding sustainable development

N is for Nature:

Healthy air and water quality, sustainable resource use, sufficient habitat (especially for endangered species), the preservation of scenic beauty

E is for Economy:

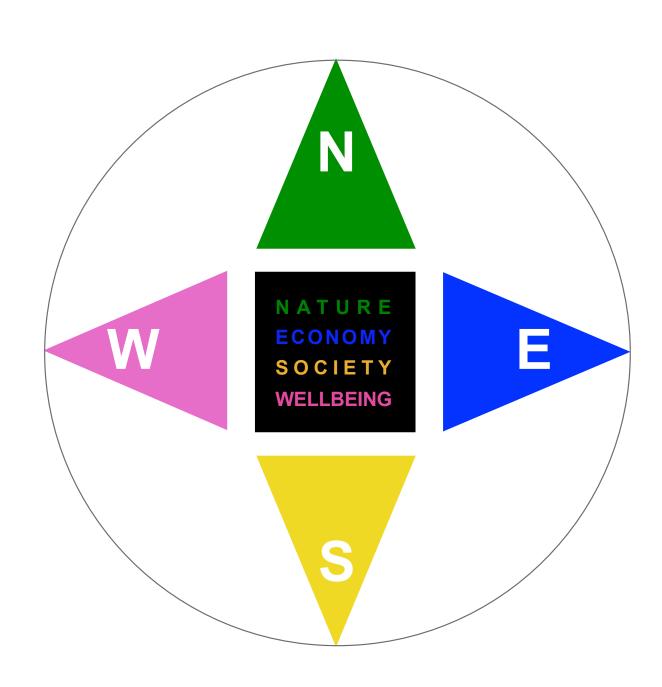
Vital businesses, good infrastructure, the sufficient production of goods and services, a solid financial sector, and good jobs or people at good wages

S is for Society:

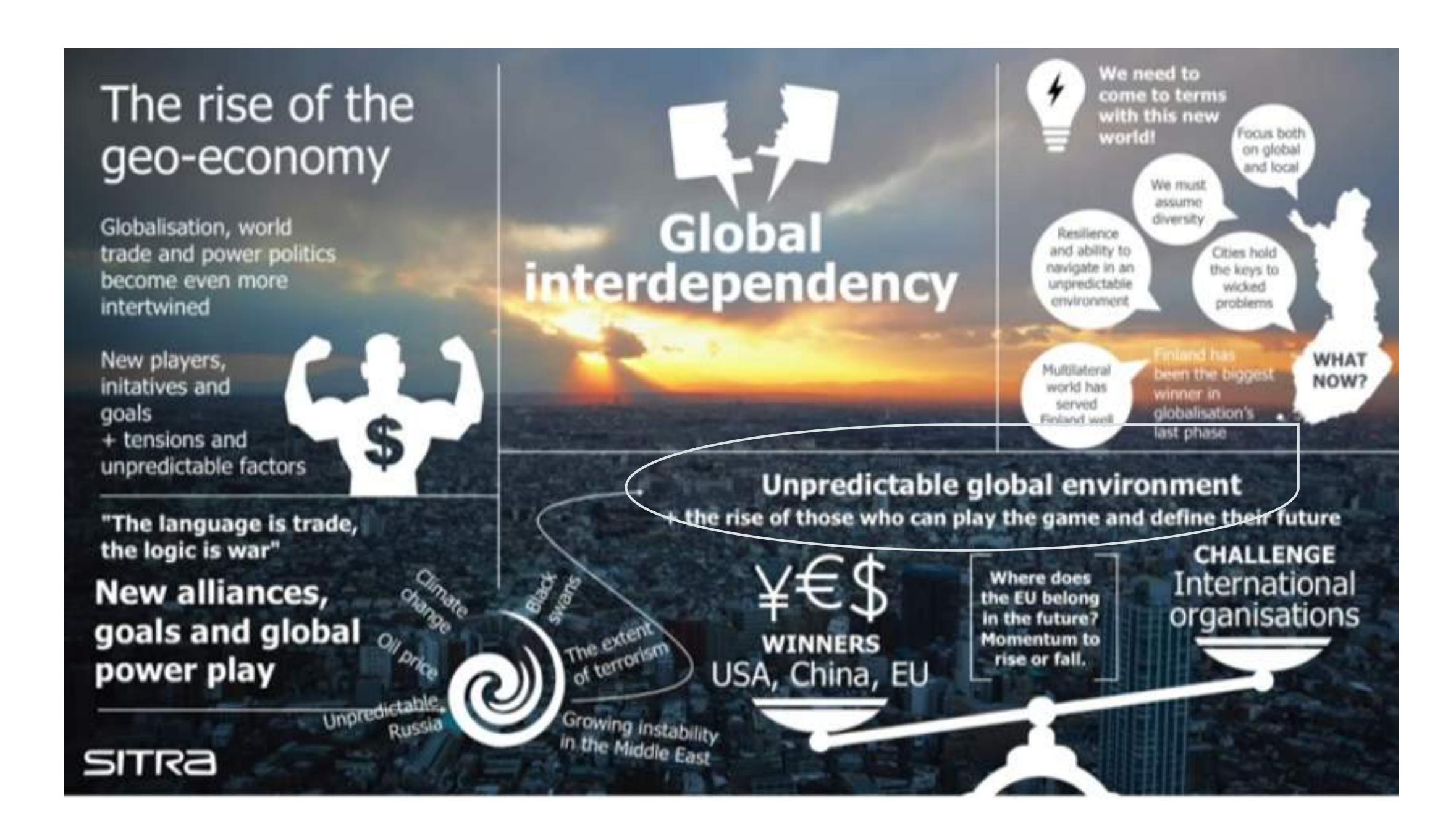
The health of our communities, institutions, schools, cultural traditions, and the arts, and the organizational structures and legal frameworks that protect equality and opportunity for all

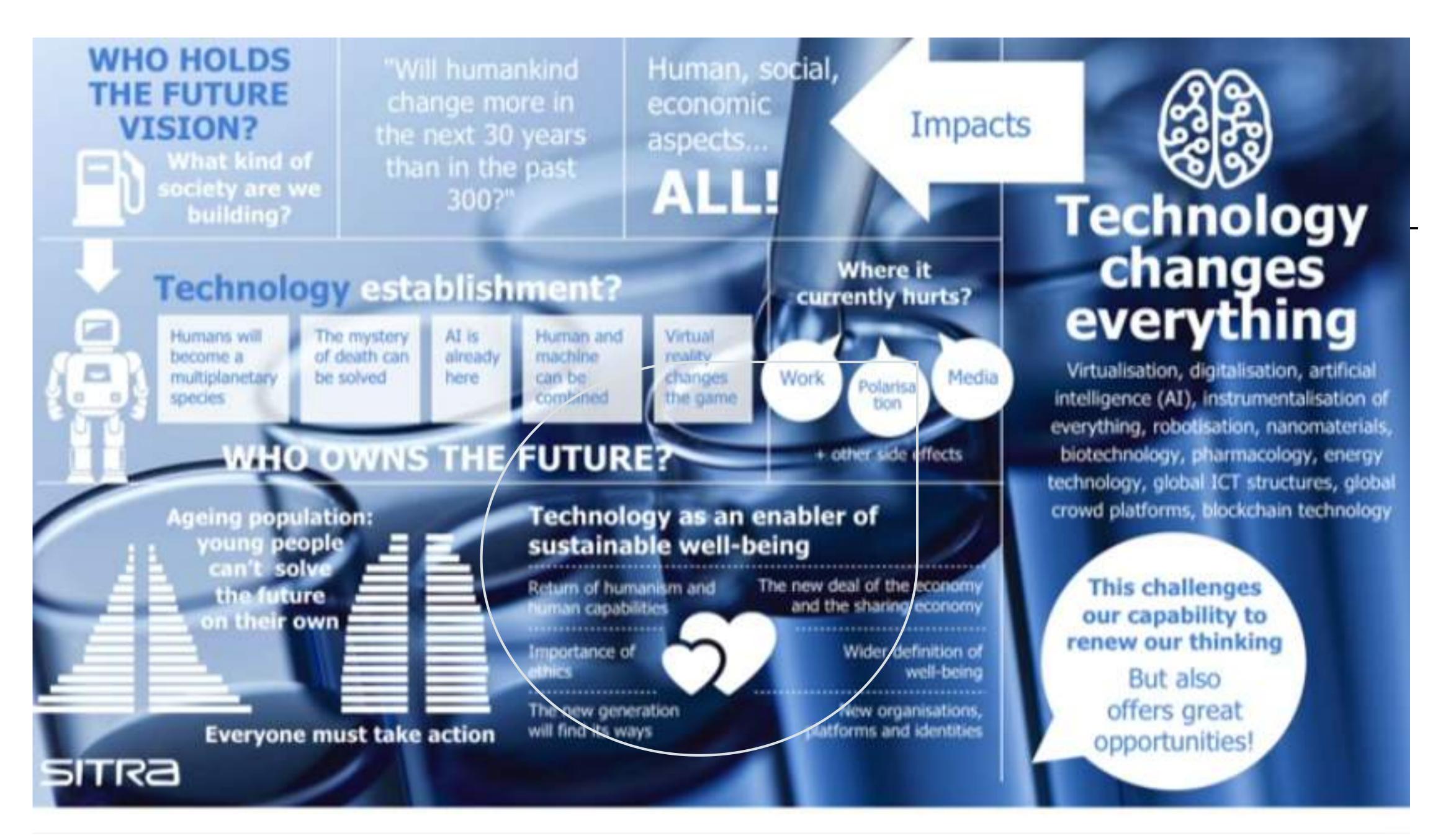
W is for Well-Being:

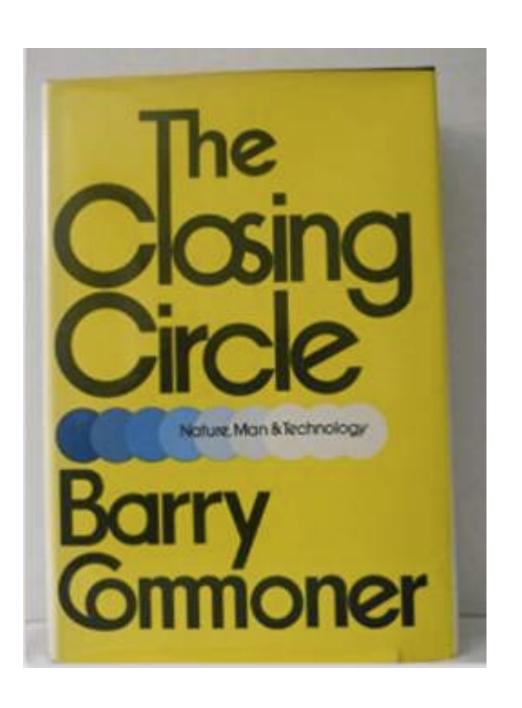
Our *individual* health, happiness, education, satisfaction, and fulfillment, as well as the health of our families and primary relationships, and the quality of our living and working environments

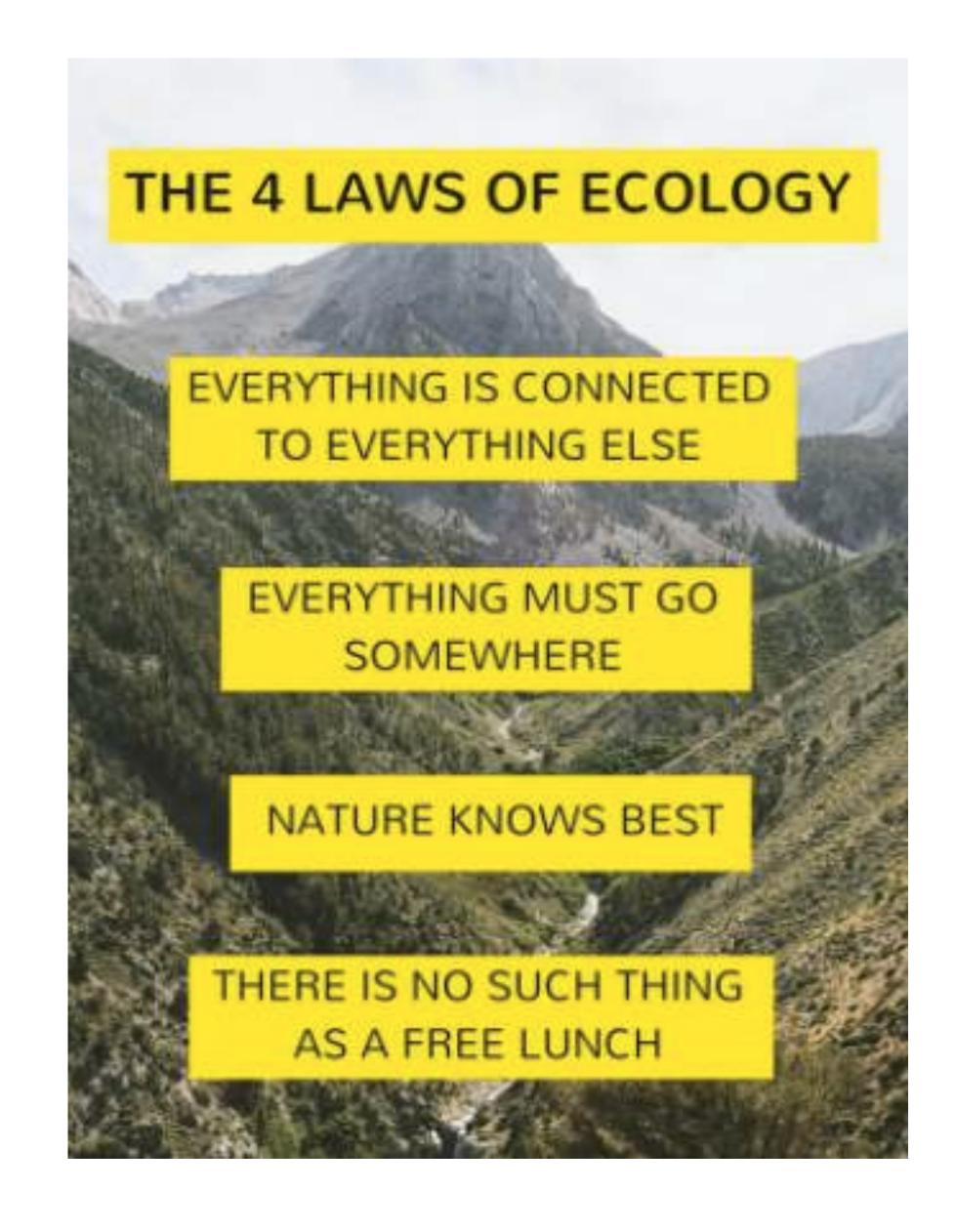




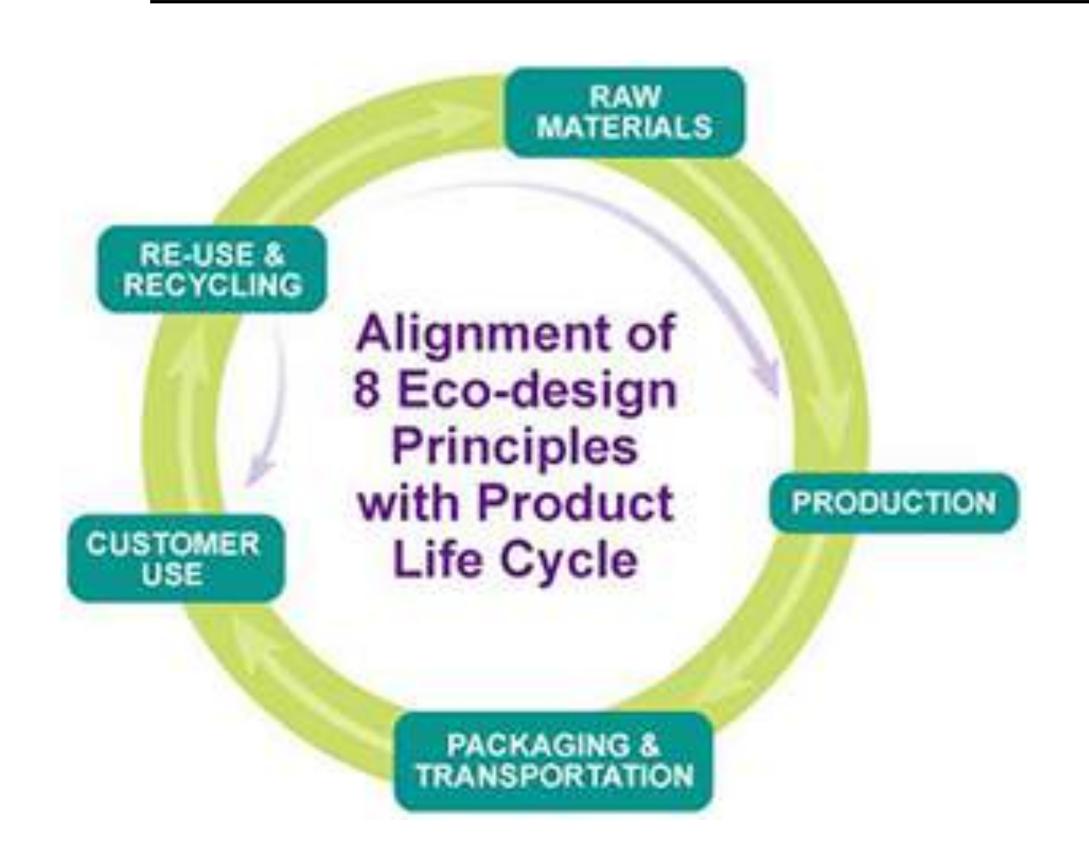








ECODESIGN



Ecodesign Measure	Adoption	Estimated annual savings by 2020	
Standby	December 2008	35 TWh	
Simple set top boxes	February 2009	6 TWh	
Street & Office Lighting	March 2009	38 TWh	
Domestic Lighting	March 2009	39 TWh	
External power supplies	April 2009	9 TWh	
Electric motors	July 2009	135 TWh	
Circulators	July 2009	23TWh	
Domestic refrigerators	July 2009	4 TWh	
Televisions	July 2009	28 TWh	
Domestic dishwashers	November 2010	2 TWh	
Domestic washing machines	November 2010	1.5 TWh	
Fans	March 2011	34 TWh	
Air conditioners and comfort fans	March 2012	11 TWh	
Total		366 TWh	

ECO-EFFICIENCY













PRINCIPLES OF SUSTAINABILITY



- ✓ we can not extract more than can be safely contained or re-absorbed
- ✓ we must not disturb a delicate balance of ecology by introducing products that are alien to nature
- ✓ nature is our life-supporting system we must not diminish it
- ✓ about equity all people in the world need the benefits of nature equally

Sustainability

- ✓ Process
- ✓ Taking into account financial, environmental, social and ethical issues
- ✓ Long term vision
- ✓ Modern development is focused on short-term economic benefit



Dimensions of sustainability

- Economic Performance
- Environment
- Human Rights
- Labour practices and decent work
- Society
- Product Responsibility

Categories used by Global Reporting Initiative (GRI)

Society		
(People)		

Environmental (Planet)

Economic (Prosperity)

Labor Practices & Decent Work	Society and Customers	Human Rights	Ethical Schavior
Employment and Staffing Labor/ Management Relations Project Health and Safety Training and Education	Community Support Public Policy/ Compliance Customer Health and Safety Product and	Non- Discrimination Exoloitative Child Labor Forced or Compulsory Labor	Investment and Procurement Practices Bribery and Corruption Anti-Competitive Behavior
Organizational Learning Diversity and Equal Opportunity Local Competence Development	Market Communications and Advertising Castomer Privacy		

Water Energy Consumption Transport Local Energy Consumption Procurement Water Quality Co2 Emissions Digital Water Contamination Communication Consumption and Pollution Clean Energy Traveling and Return Sanitary Water Commuting Displacement

Renewable

Energy

Logistics

Return on Investment Benefit Cast Ratio Direct Financial Benefits External Rate of Return Internal Rate of Return Net Present

Value

Recycling

Disposal

Waste

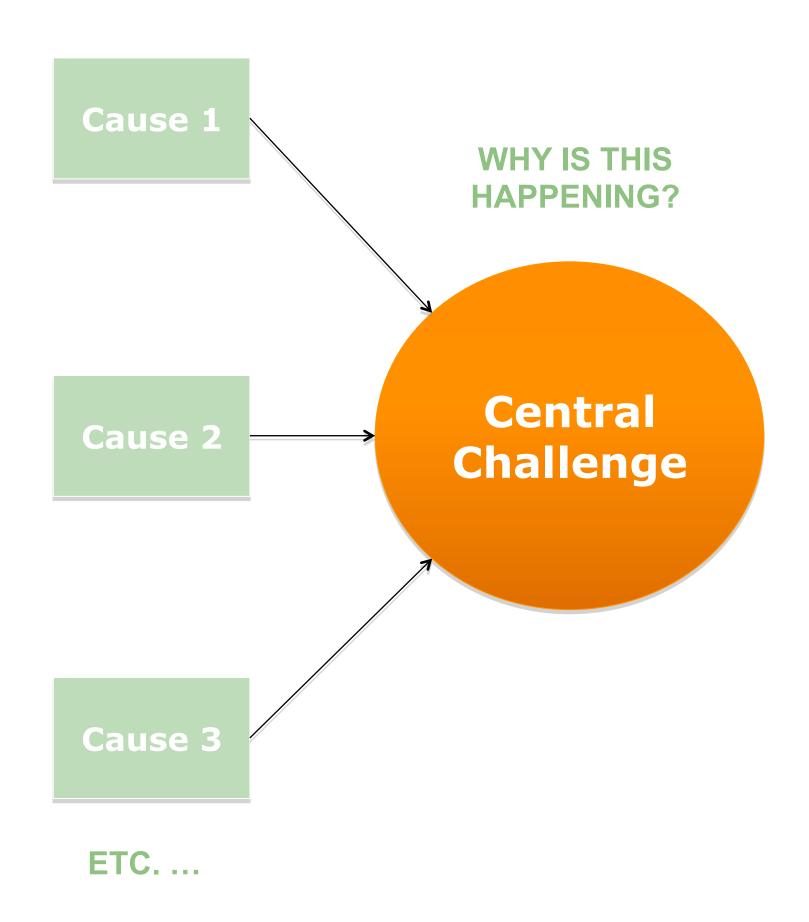
Economic **Business Agility** Stimulation Flexibility/ Local Economic Optionality Impact in the project Indirect Benefits Increased Business Flexibility

Group work: impacts of business

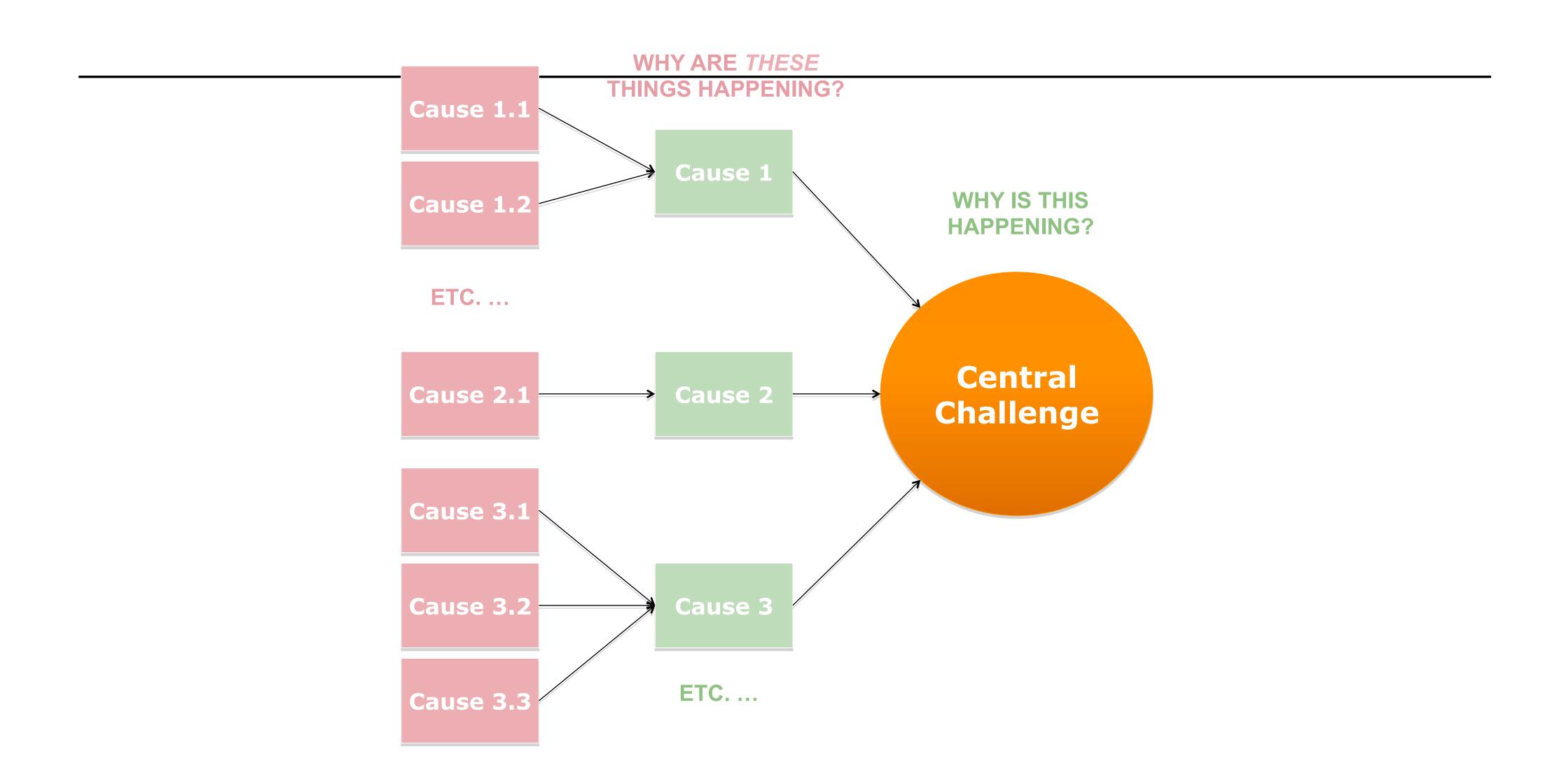
5 Steps

- 1. What is happening? Share information about the issue
- 2. Why it is happening? Think about the causes
- 3. Brainstorm ideas: ways to address and improve the issue
- 4. Make a plan about how to implement your ideas
- 5. To cap it off ... make a commitment to do it!

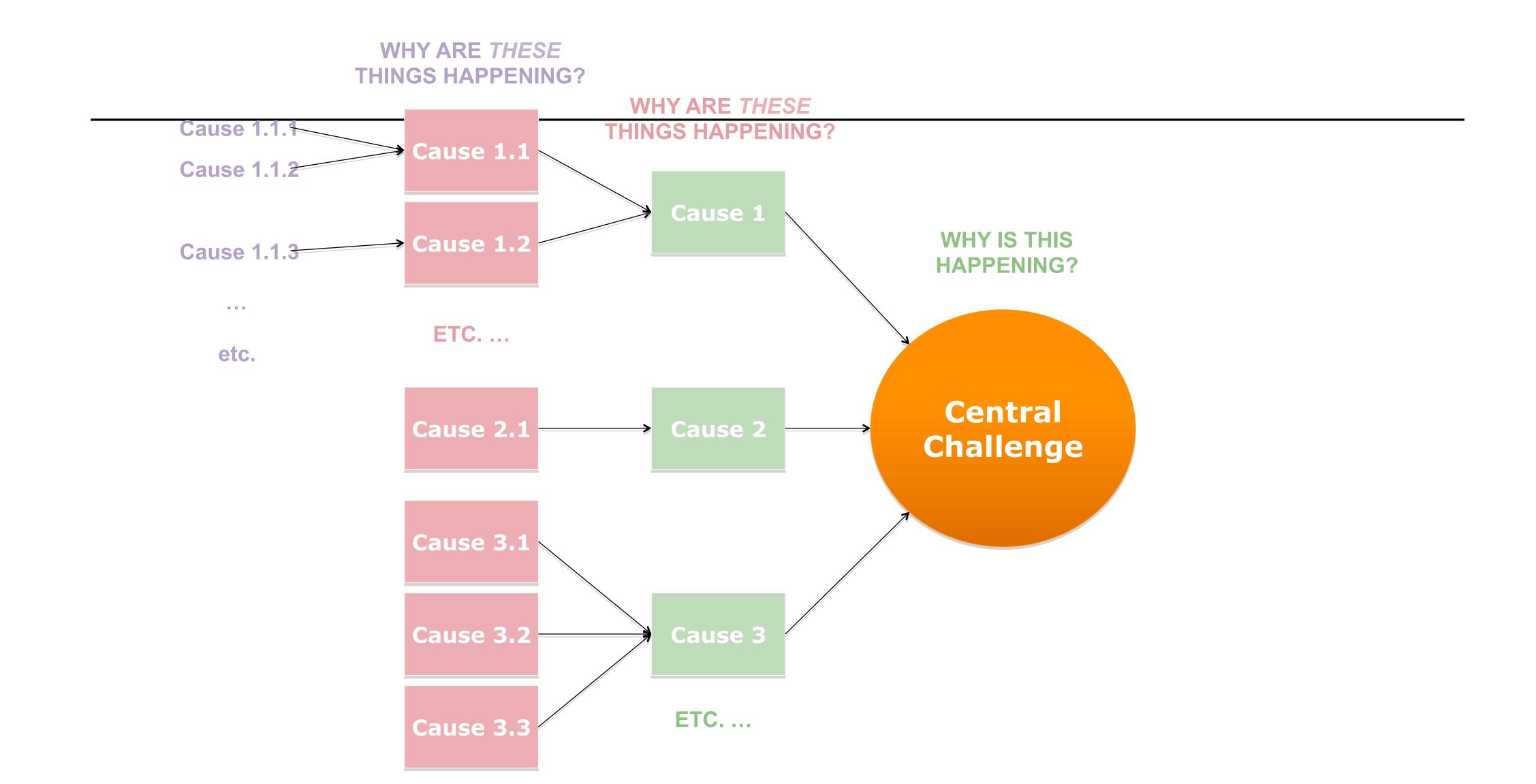
Why is it happening? What are the causes of that Central Challenge we are facing?



Why is it happening? If you want to push the dialogue further ...



Why is it happening? And still further! Until you feel you have a good understanding



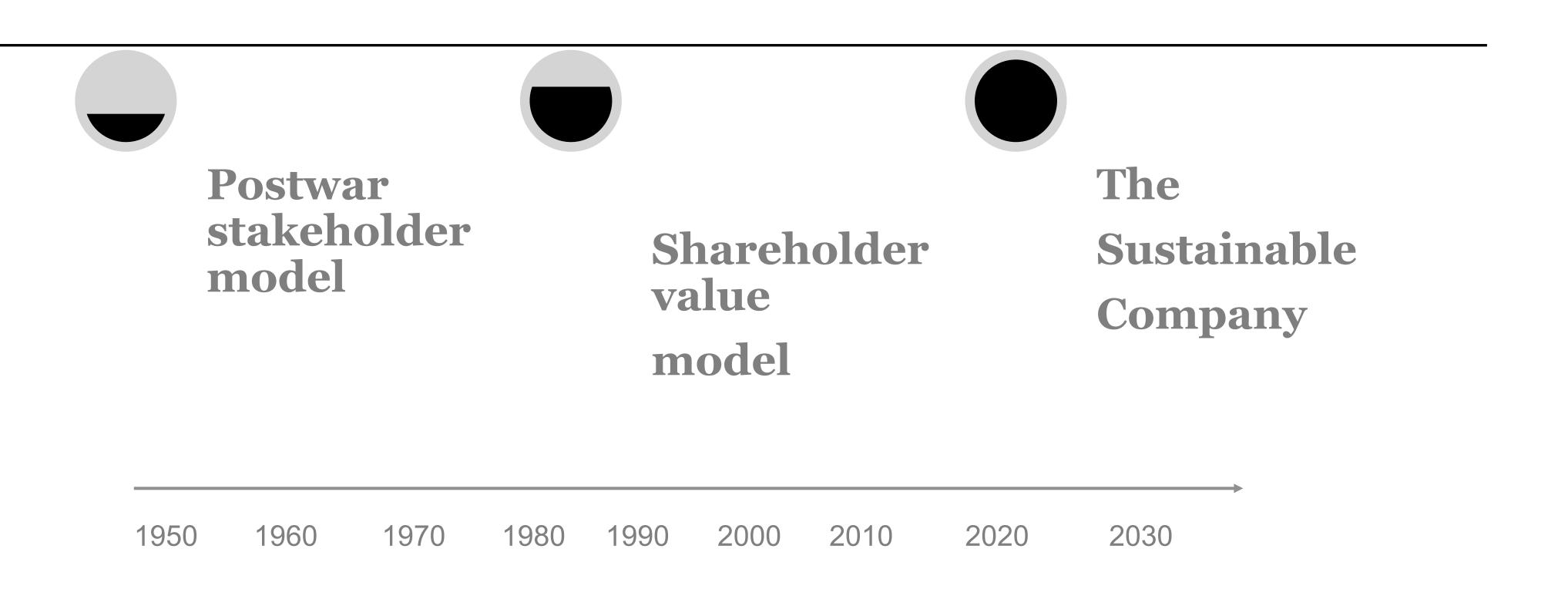
Sustainable and responsible business

Corporate Responsibility

Seriously considering the impact of a company's actions on society.

Requires the individual to consider his/her acts in terms of a whole social and environmental system, and holds him/her responsible for the effects of acts anywhere in that system.

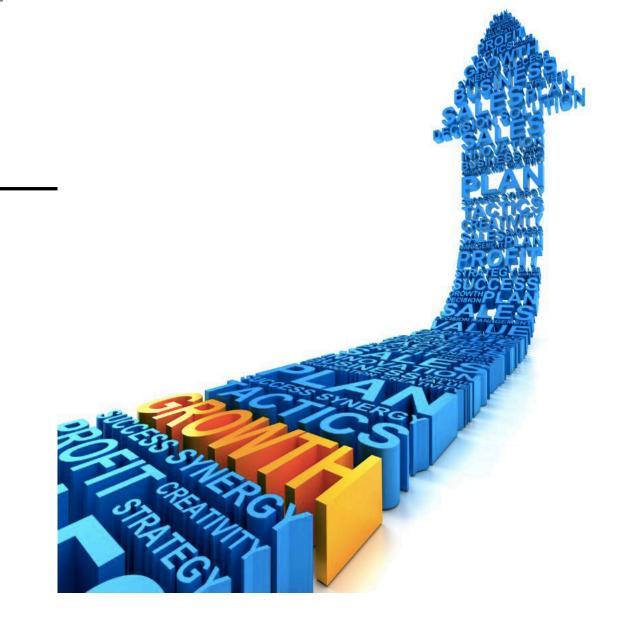
From CSR to Sustainable business



Growth is at the heart of the business model?

The 1970's doctrine of Milton Friedman:

"The social responsibility of business is to *increase its profits*".





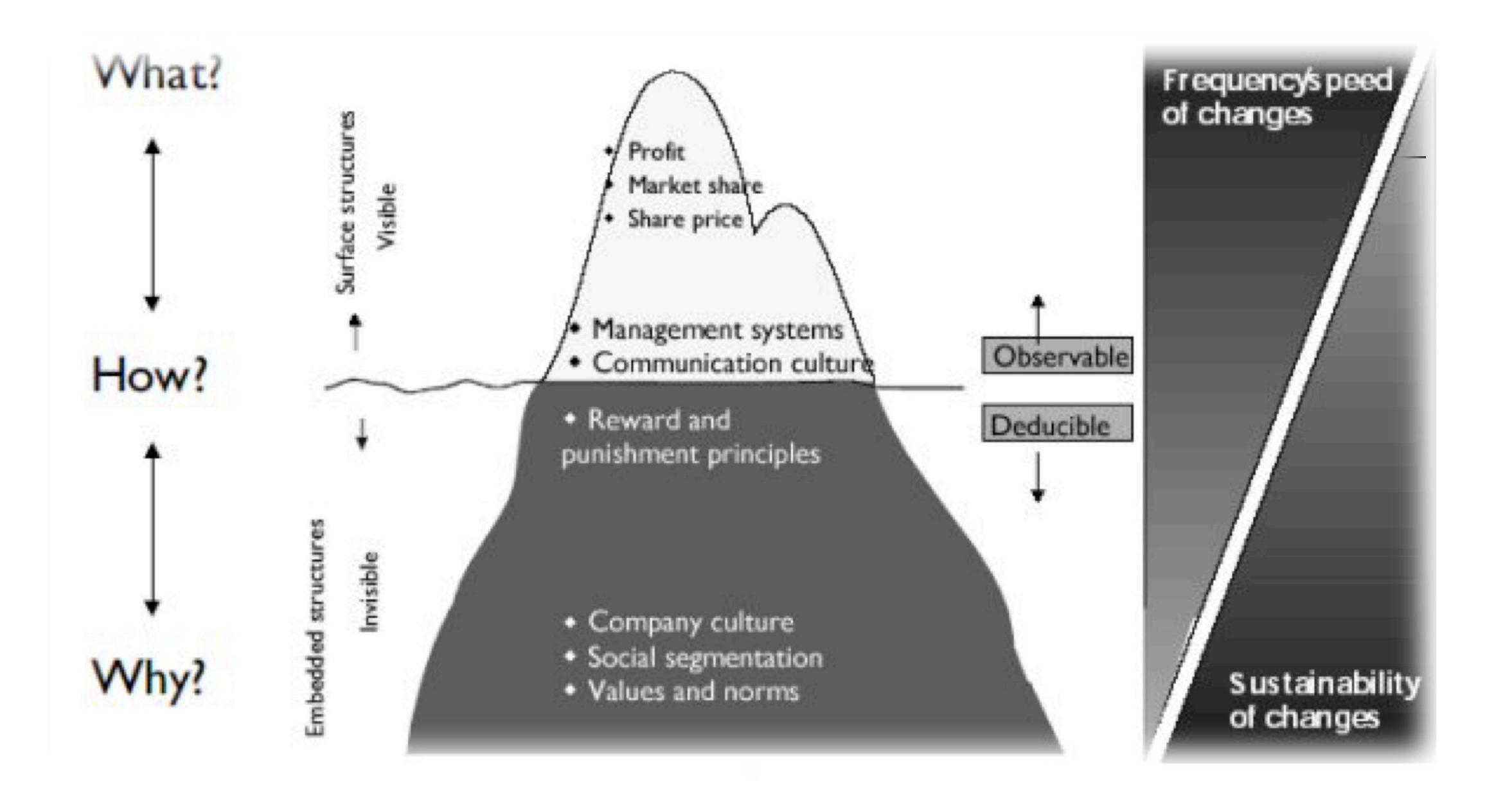
But the foundation of this model was developed at a time when we didn't comprehend the natural limits to growth.

Corporate social responsibility

organization takes responsibility of its decisions and operations on society and environment and follows the principles of transparent and ethical behavior, which:

- ✓ meet the principles of sustainable development and social wellbeing;
- ✓ takes into account expectations of interest groups;
- ✓ comply existing laws and international norms;
- ✓ is integrated into the internal processes as well as external relations.

According to ISO26000



INSTRUMENTS AND MEASUREMENTS

UN Global Compact













CARBON DISCLOSURE PROJECT





Initiatives on Sustainability and CSR for business







Ten Principles

- Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights
- Principle 2: Make sure that they are not complicit in human rights abuses.
- Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
- Principle 4: The elimination of all forms of forced and compulsory labour;
- Principle 5: The effective abolition of child labour; and
- Principle 6: The elimination of discrimination in respect of employment and occupation.
- Principle 7: Businesses should support a precautionary approach to environmental challenges;
- Principle 8: Undertake initiatives to promote greater environmental responsibility; and
- Principle 9: Encourage the development and diffusion of environmentally friendly technologies.
- Principle 10: Businesses should work against all forms of corruption, including extortion and bribery.

 58

25 September 2015, UN

2030 Agenda for Sustainable Development a 'plan of action for people, planet, and prosperity' the agenda includes 17 sustainable development goals for 169 targets



Measurement and management of business impacts on global sustainable development www.global-value.eu

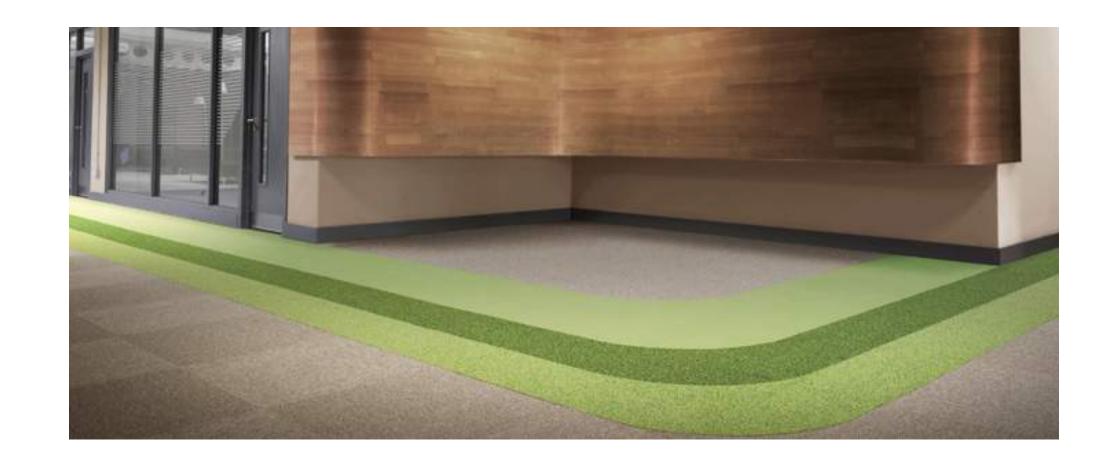


REALITY: cases

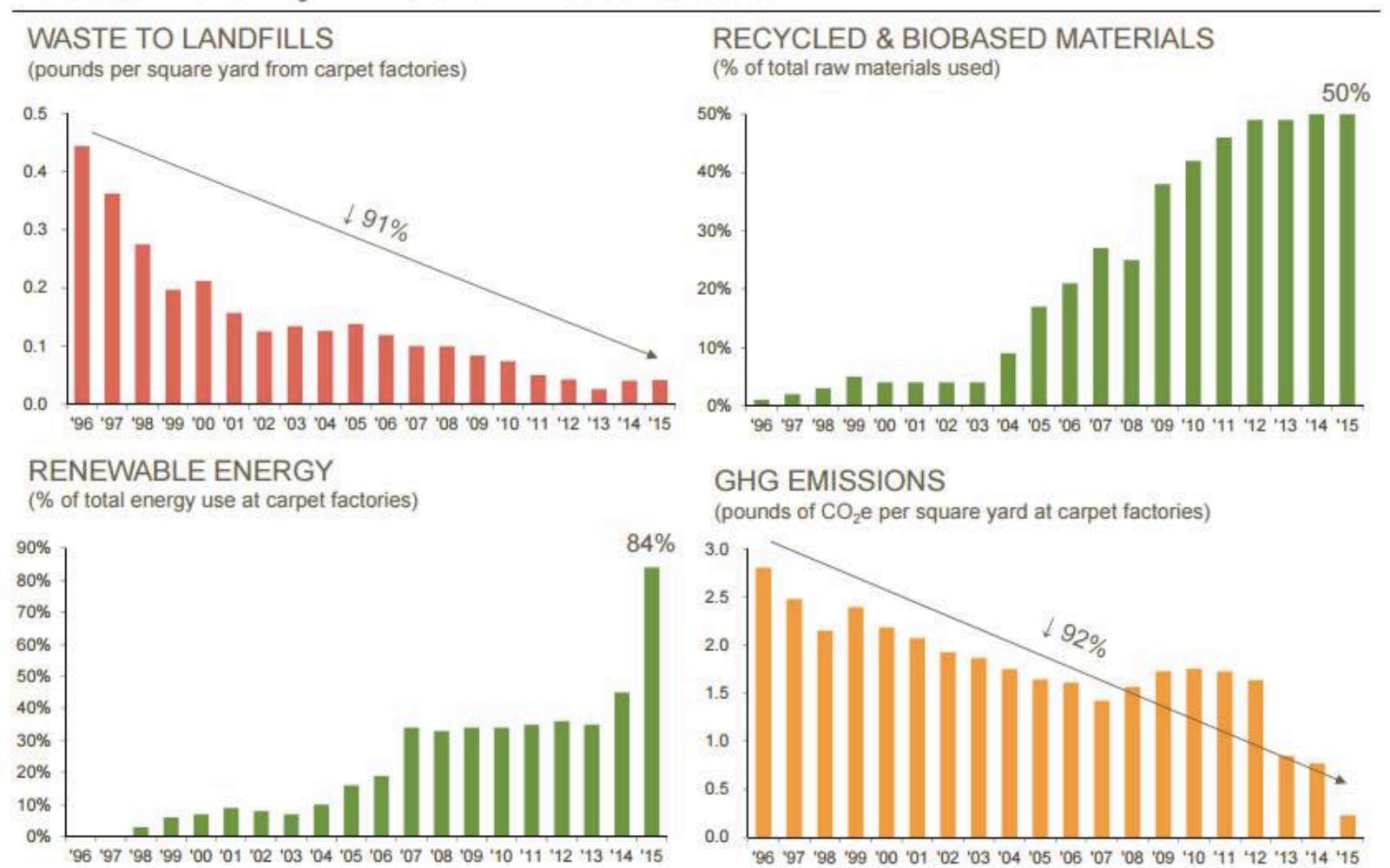
Interface

2016 NET SALES - \$ 958.6 MLN





Sustainability: Mission Zero Goals









ASIAN EXPORTERS NEED 1,700,000,000 PALLETS / YEAR CURRENT SITUATION



DEFORESTATION

TRANSPORT

PEST TREATMENT

END OF LIFE







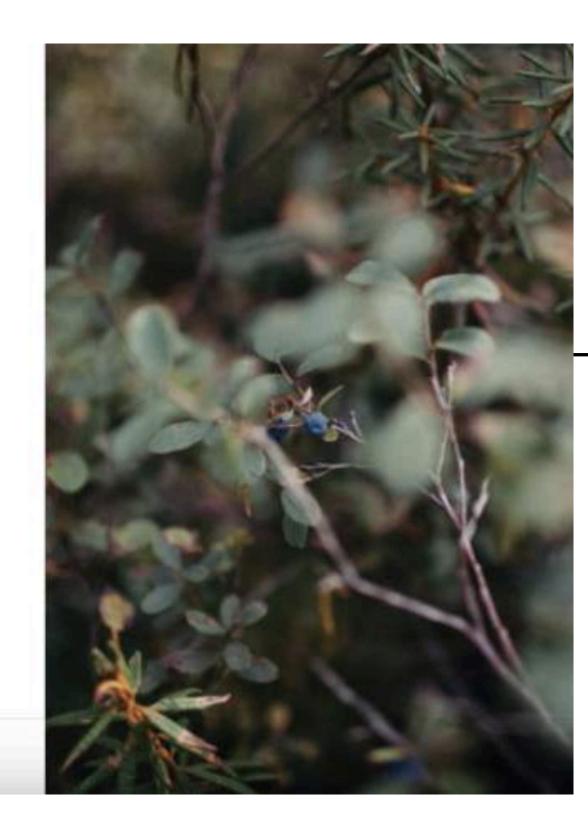
At The Way Was See A form

RESERVALIONS MENO ABOUT US GARDEN SUPPLIERS & PRIENCES PRESS













Clayer-more

with truth and meals prepared from local ingredients in tune with the natural cycle of nature.

Our love affair with food began while looking for the simple answer of what defines our gastronomical tradition. In other words, who we, Lithuanians, are at the table and where our roots grow. It all started with reminiscing about the meals our mothers used to prepare and simple yet delicious desserts like blueberries with milk concocted by our grandmother.

The philosophy built from our own experiences and the desire to bring back the pride of who we are and where we live lands on the plates we bring to your table every day. We try to pass on the emotion of these foods by telling the stories and sharing our discoveries with our guests. We want you to know how diverse and unique Lithuania is. We want you to join us to experience the particularity of our cuisine by returning to its most simple ingredients – like beetroot, dill, or honey. This small step back is actually a big step forward, the beginning of a new journey full of heart-warming emotions. It is our table, our traditions, our childhood on a plate, our seasons, and our feelings; in fact, it is who we truly are.

Sigitas Žemaitis

Ideas and visions mix in his head with daily routines and the aim for perfection. Sigitas regularly takes on the role of a general manager of the restaurant, and more often, that of waiter and storyteller.

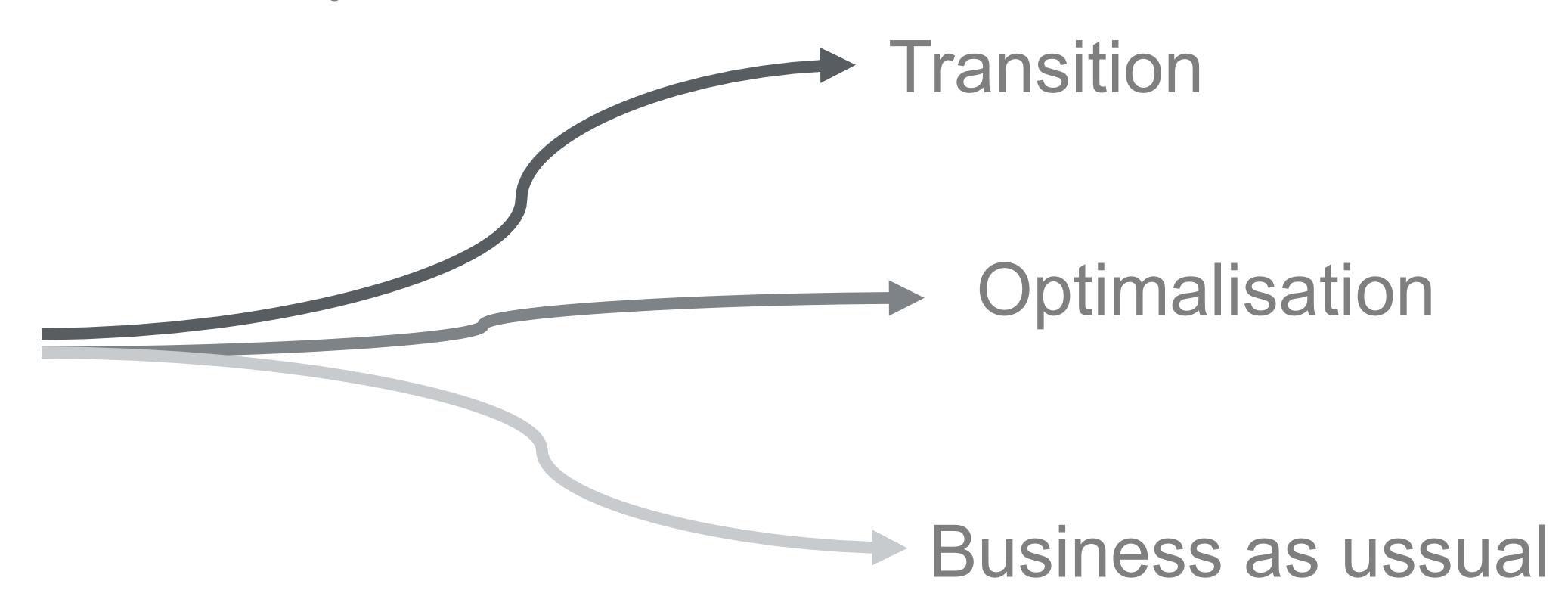
SWEET ROOT

Nordic approach



- LOOK FOR TROUBLE, BIG PROBLEMS. THINK BIG
- MAKE SUSTAINABILITY AFFORDABLE & SCALEABLE
- **DEVELOP/DESIGN WITH CIRCULARITY IN MIND**
- FUND START UP WITH YOUR OWN MONEY, SUBSIDIES, GRANTS UNLESS....
- **IT IS ALL ABOUT TEAM**
 - DRIVE
 - EAGERNESS
 - DIVERSITY
- MAKE SURE YOU UNDERSTAND THE WHOLE CHAIN
- **FAIR SHARE PRINCIPLE**
- **MEET CUSTOMERS**
- HAVE GRIT

CHOICE is yours





rerum cognoscere causas

(to understand the causes of things)

audrone.alijosiute@bef.lt +37068721450