

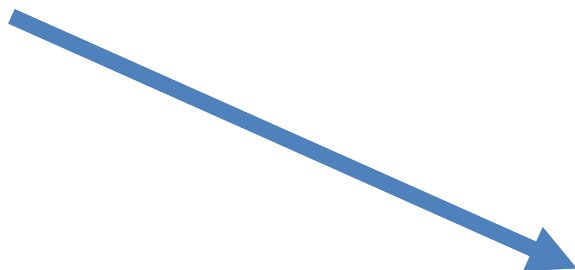


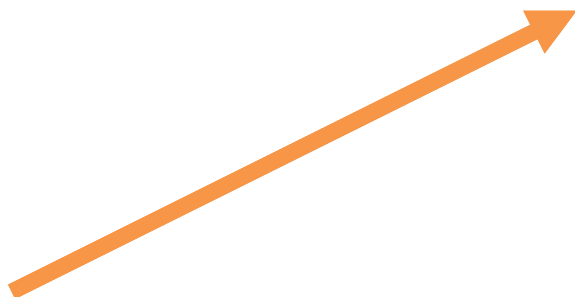
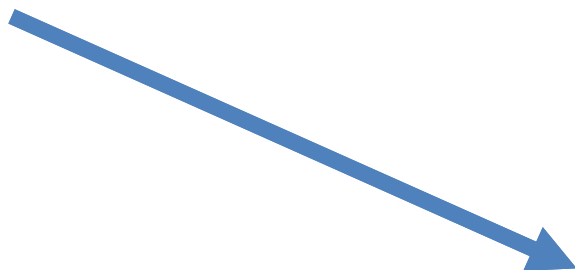
THE NATURAL STEP

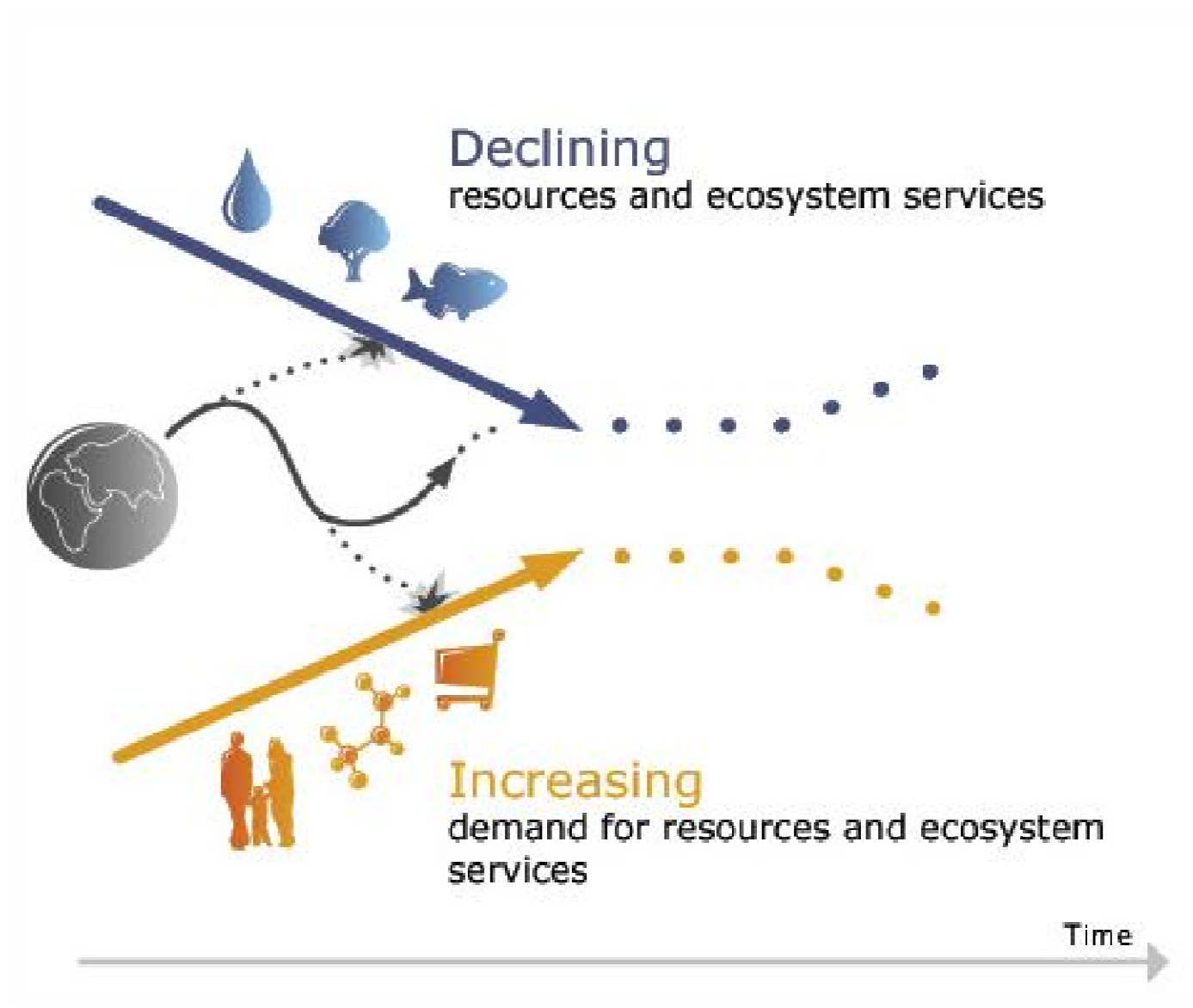
A Framework for Strategic Sustainable Development

Nils Klinkenberg, MSLS

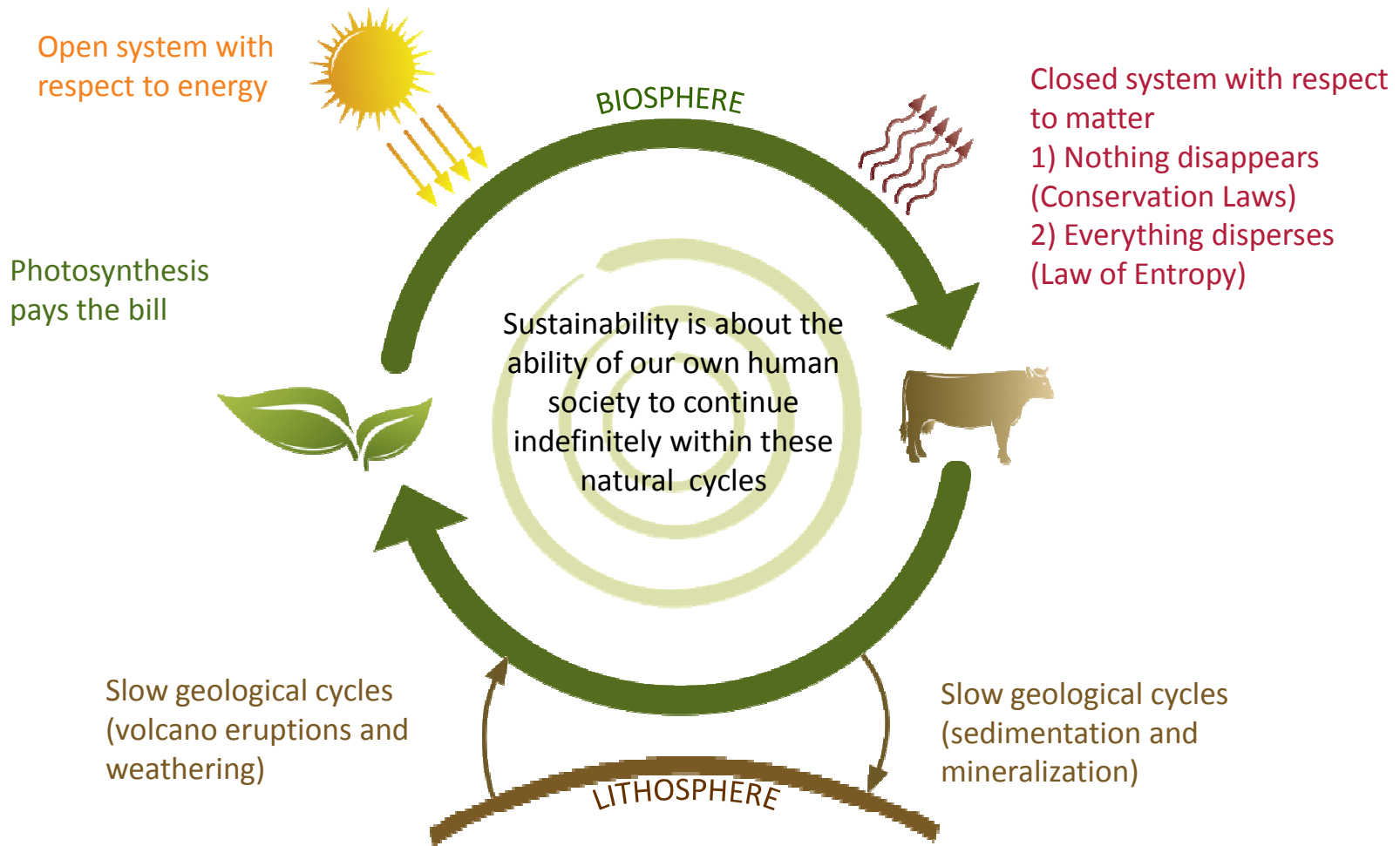
9 November 2010

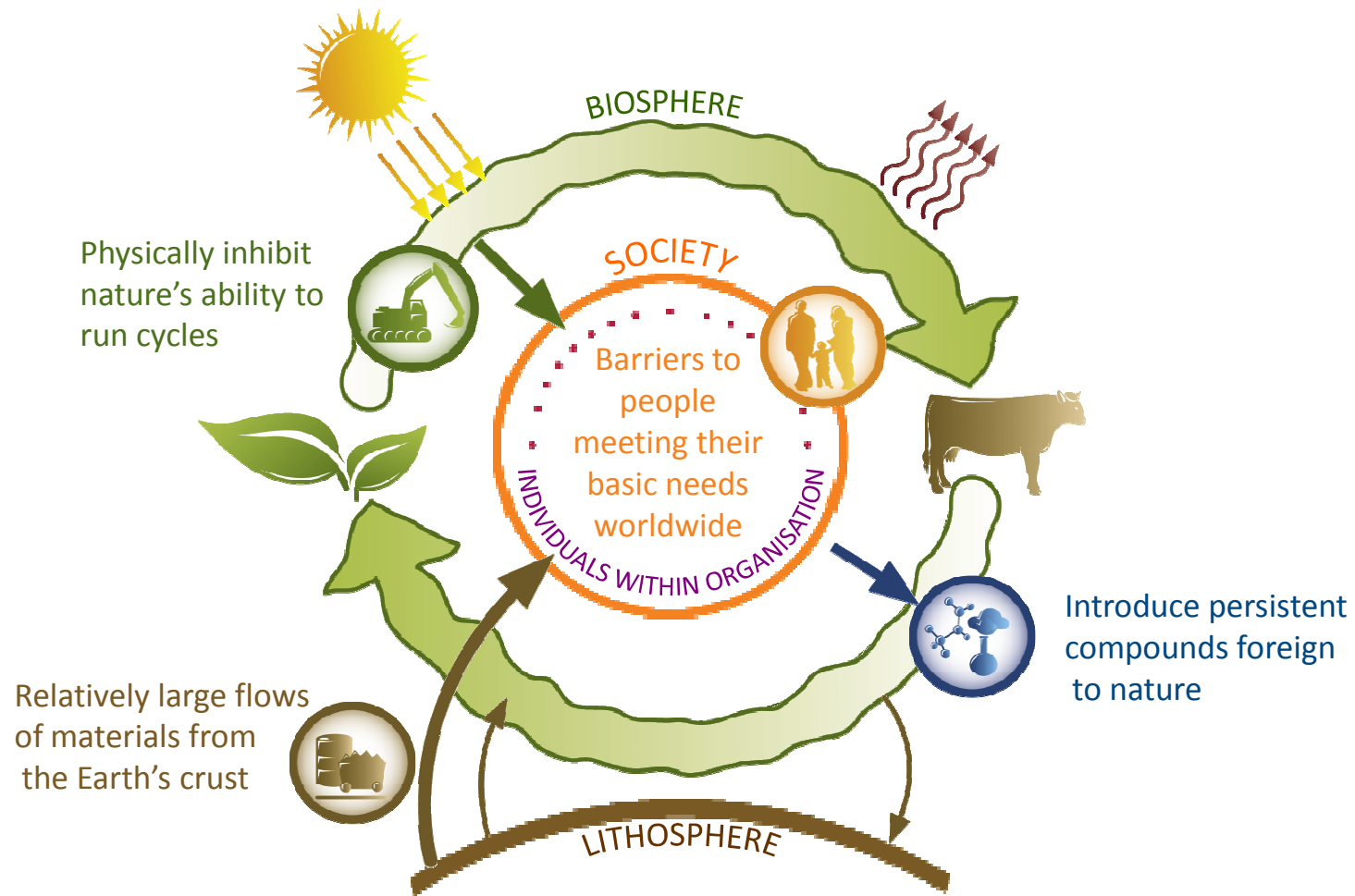












SYSTEM CONDITIONS

In a Sustainable Society, nature is not subject to systematically increasing...



...substances extracted from the Earth's crust



...substances produced by society



...degradation by physical means

And, in that society...



...people are not subject to conditions that
undermine their capacity to meet their needs

SUSTAINABILITY PRINCIPLES

In a Sustainable Society, we will reduce and eventually eliminate our contribution to ...



...accumulation of materials from the earth's crust



...accumulation of substances produced by society



...ongoing physical degradation of nature



...conditions that undermine people's ability to meet their basic needs

SP 1: MINED MATERIALS



Inefficient Use → Efficient Use

Dissipative Use → Tight Technical Cycles

Scarce metals → Abundant metals

Fossil Fuels → Renewables

SP 2: SYNTHETIC SUBSTANCES



Inefficient Use → Efficient Use

Persistent & Unnatural → Abundant & Breakdown Easily

Dissipative Use → Tight Technical Cycles

SP 3: PHYSICAL DEGRADATION



Inefficient Use of
Resources & Land



Efficient Use of
Resources & Land

Resources
from poorly
managed ecosystem



Resources from
well-managed
ecosystems

SP 4: SOCIAL BARRIERS



Unsafe & Unhealthy
Production & Use



Safe & Healthy
Production & Use

Violation of
Human Rights

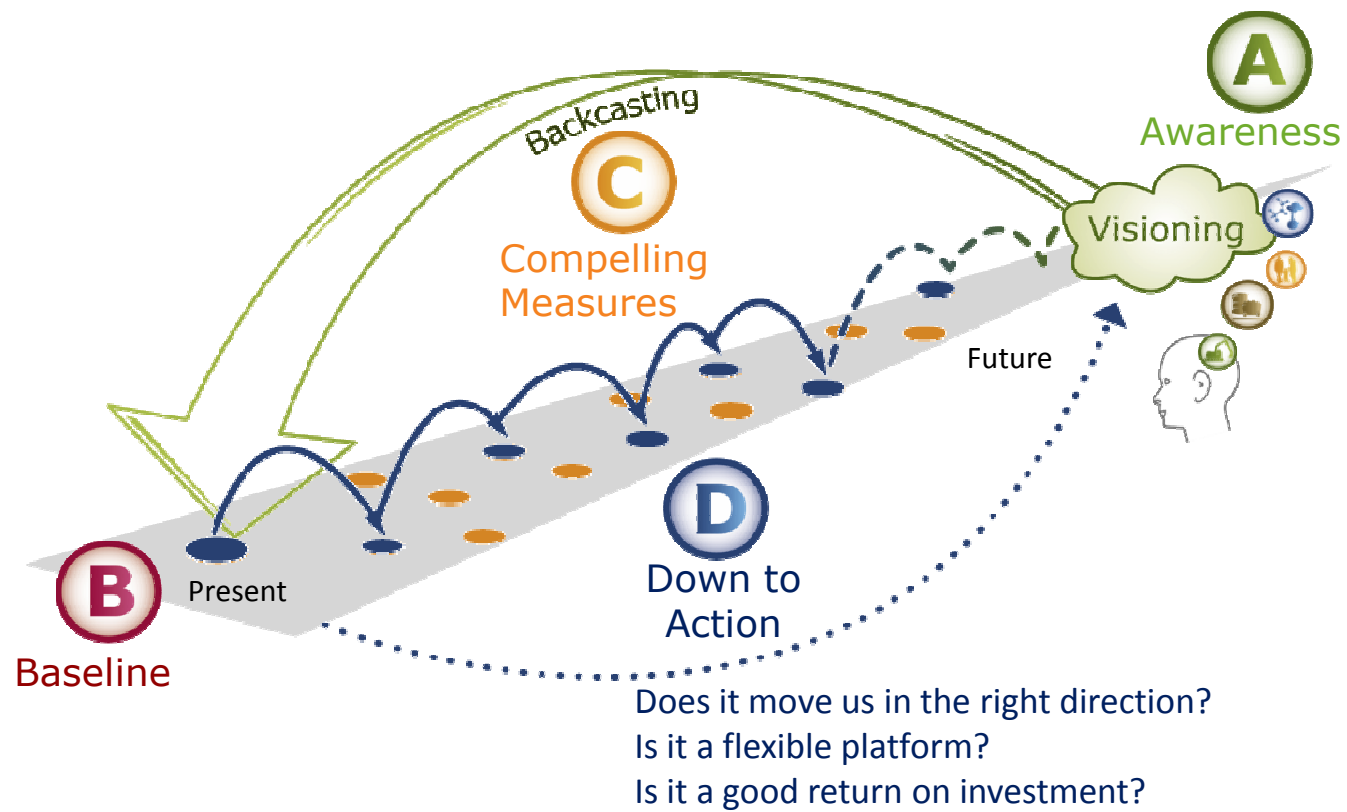


Respect for Human Rights

Economic
Barriers



Sufficient Resources
for Livelihood





Nils Klinkenberg

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SUSTAINABILITY PRINCIPLES

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...accumulation of materials from the earth's crust



...accumulation of substances produced by society



...ongoing physical degradation of nature



...conditions that undermine people's ability to meet their basic needs



“The whole world has dreamt about a solid definition of sustainability that would allow systematic step-by-step planning. When the definition arrived, delivered by The Natural Step, it was remarkable to see how simple it was.”

- *Paul Hawken*, Author of *The Ecology of Commerce*, *Natural Capitalism*

“The TNS framework is the most rigorous, scientifically-based, and practical sustainability methodology on the planet.”

- *Bob Willard*, Author of *the Sustainability Champions Guidebook*, *The Sustainability Advantage*, *The Next Sustainability Wave*

