# Environmental considerations

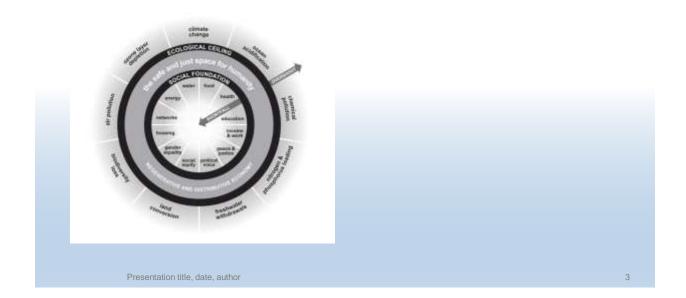
**Mike Baldwin** 

| Satt-<br>Sustairs<br>Pressure       | Control Versible  | Panetary<br>Boundary                                      | Current Velue<br>and Trend                                    |
|-------------------------------------|---|---|---|
| Climeta<br>sturge                   | Although and control musical<br>concentration, parts par-<br>million (open)   | Al cost<br>300ppre  | #30ppm and thing<br>(nervaning)                               |
| Ocuare<br>Acidification             | Animpt schedor of<br>angorith failthan<br>schoold) of the scene<br>school as a percentage<br>of pre-induction heads | At load<br>80% d<br>phy industrial<br>caturation<br>loads | Around 84% and<br>failing (internativing)                     |
| Chemical<br>Poliulier               | The goal of control variable<br>got defined   | 22  | 2   |
| Attempt and<br>Photohous<br>Loading | Prospirerus applied to level<br>as fartilises, millions of tons<br>per plan   | Ali musi 612<br>nalisentern<br>pregnar                    | Annual 14 within<br>fors peryster and<br>mang Geometrical     |
|                                     | Heatship milingen oppliet to<br>lend an ferkisten, milians ch<br>land par year                                      | All recent 402<br>stableys higher<br>gain year            | Around 1500 william<br>Aros per year and<br>mang (arcraening) |
| Freshveter<br>Withdrawith           | Bue ander consumption,<br>putri feloretinis për poer  | Al nost<br>4,000 km²                                      | Around 2000 kert<br>per year and range<br>Ordensifying)       |
| Land<br>Conversion                  | Arise of Remoted level as a<br>properties of Remoted level as<br>level prior to rearran attention.                  | Al Novit 7375   | Converse)   |
| Biodiversity<br>Loss                | Rate of species extreme<br>pic million species per year   | Aireat 10   | Around 100-1,000<br>and room,<br>(scineoring).                |
| Air Pollution                       | The global control variable:<br>yet-befored   |   | -   |
| Ozone Layer<br>Depletion            | Conpermittan of score # the<br>stratogramme. In Domain Units.   |   | \$83 (X) entitieng<br>Origoniege                              |

We have an economy that needs to grow, whether or not it makes us thrive. We need an economy that makes us thrive, whether or not it grows.

And instead of focusing on the throughflow of monetary value, as GDP was designed to do, the new metrics will monitor the many sources of wealth – human, social, ecological, cultural and physical – from which all value flows.

#### The need for a new framework



#### Being part of the health ecosystem

"In all our activities we will protect our employees, facilities and the environment from harmful influences, conserve natural resources and promote environmental awareness". This is stated in our guiding principles or "Leithild"



https://www.boehringer-ingelheim.com/sustainability/environment-health-and-safety/performance-indicators

Presentation title, date, author

4

Post manufacturer > health care systems

INCREMENTAL COSTS

HTA framework of

INCREMENTAL BENEFITS

From a health care system perspective.

Current heuristic if everything the same then the more environmentally sound the technology then it should Be adopted.

Presentation title, date, author

#### Why not extend this?



WHERE IS THE DATA?

WHAT ARE THE COSTS IN GATHERING THESE DATA?

ARE THERE ANY INCENTIVES IN SHOWING THESE DAT.

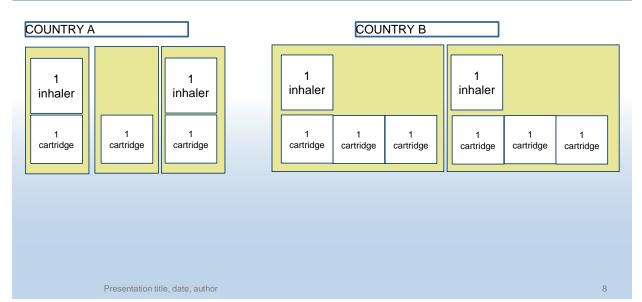
Presentation title, date, author

### **GO FURTHER**

#### ECONOMISTS AS DESIGNERS / COCREATORS OF CARE PATHWAYS



#### Design - institutional design or process design



## Future requests

- · Where are we optimising our systems?
  - Patient experience
  - Total costs
  - Environmental costs
- · How are we making choices in this optimisation
- Where are the incentives of producing a full data package?

Presentation title, date, author

#### Thank you