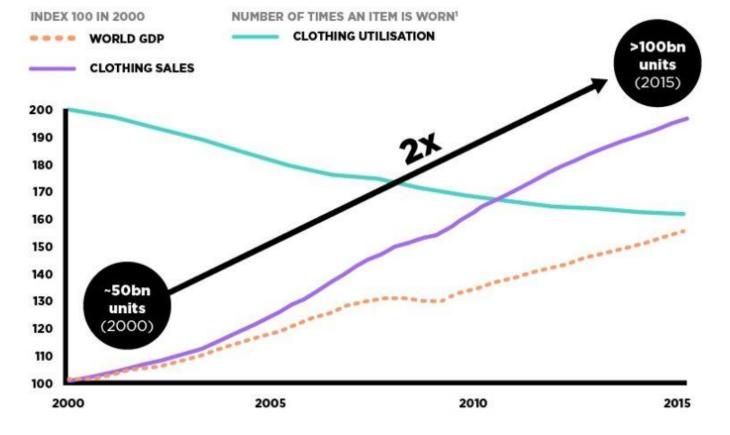


Ken Webster





1 Average number of times a garment is worn before it ceases to be used Source: Euromonitor International Apparel & Footwear 2016 Edition (volume sales trends 2005-2015); World Bank, World development Indicators - GD (2017)



UR







PHASE OUT SUBSTANCES
OF CONCERN AND
MICROFIBRE RELEASE

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8

INCREASE CLOTHING UTILISATION

3

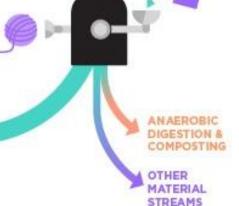
RADICALLY IMPROVE RECYCLING



MAKE EFFECTIVE USE OF RESOURCES AND MOVE TO RENEWABLE INPUTS

0

RENEWABLY SOURCED FEEDSTOCK



tiny.cc/fibres



A sandwich, a butterfly and a cake!



THE SANDWICH

SYSTEMS THINKING

- SCIENTIFIC WORLDVIEW
- COMPLEX ADAPTIVE SYSTEMS
- HOW WE TEACH AND LEARN





THE SANDWICH

SYSTEMS THINKING

- SCIENTIFIC WORLDVIEW
- COMPLEX ADAPTIVE SYSTEMS
- HOW WE TEACH AND LEARN

PRODUCTION & CONSUMPTION

- CRADLE TO CRADLE
- PRODUCT SERVICE SYSTEMS ETC





THE SANDWICH

SYSTEMS THINKING

- SCIENTIFIC WORLDVIEW
- COMPLEX ADAPTIVE SYSTEMS
- HOW WE TEACH AND LEARN

PRODUCTION & CONSUMPTION

- CRADLE TO CRADLE
- PRODUCT, SERVICE, SYSTEMS ETC

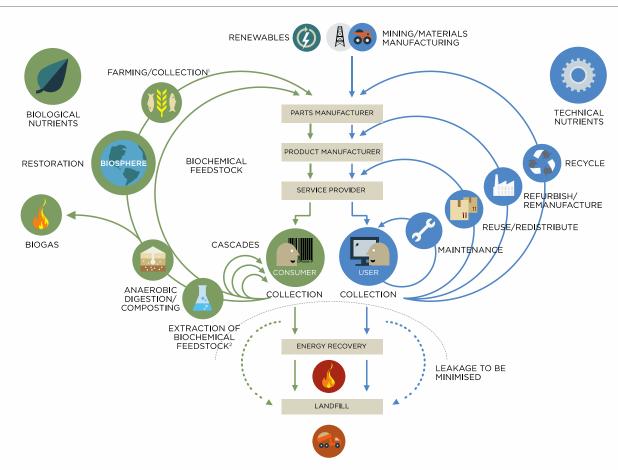
ENABLING CONDITIONS

- GOVERNMENT 'RULES OF THE GAME'
- ICT REVOLUTION ETC



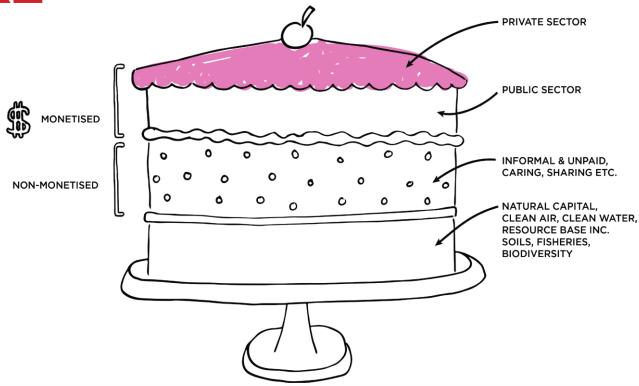


CIRCULAR ECONOMY THE BUTTERFLY DIAGRAM





A CAKE





Two approaches

Technosphere

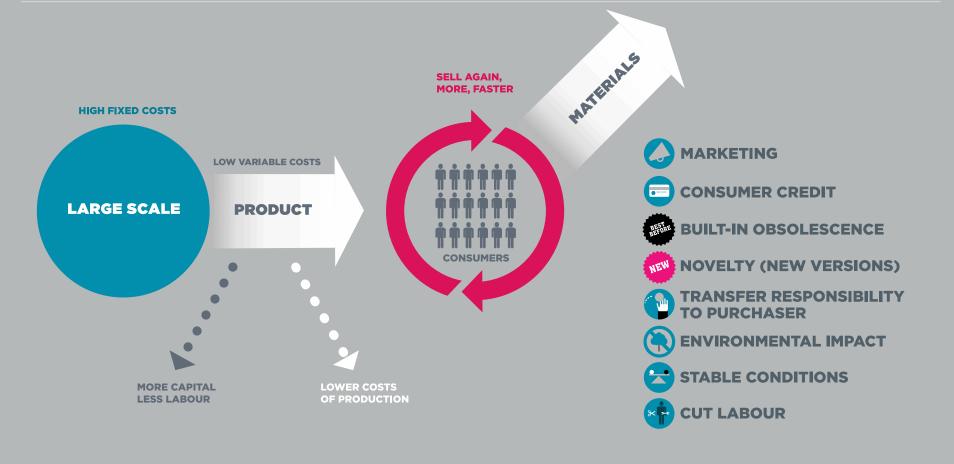
Goods to services

Biosphere

Cascading: multiple benefits and cash Flows









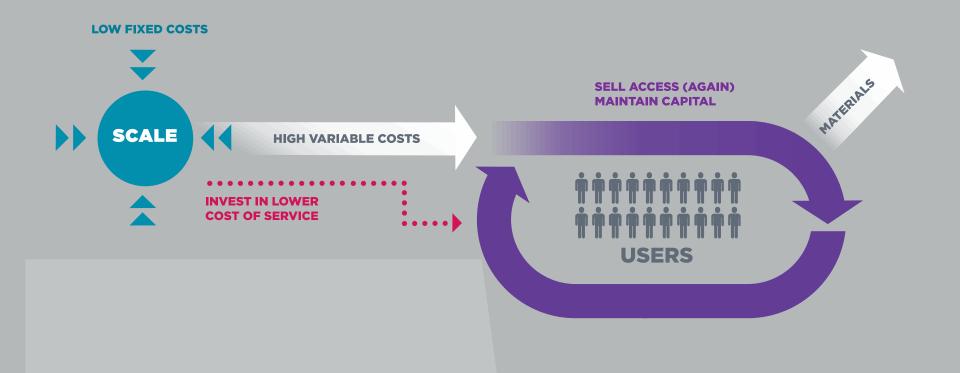
Revenue means selling more or selling again and again...



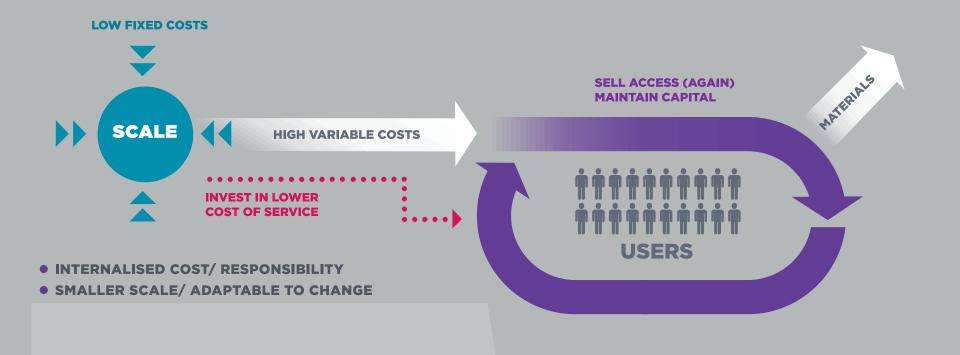
It's the very scale and fact of selling the goods which does so much to cause the problems.

So what if both scale and selling the goods could be challenged profitably?

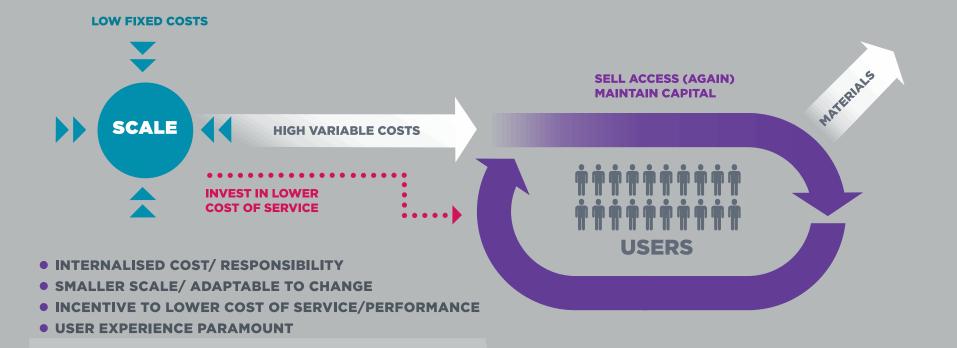




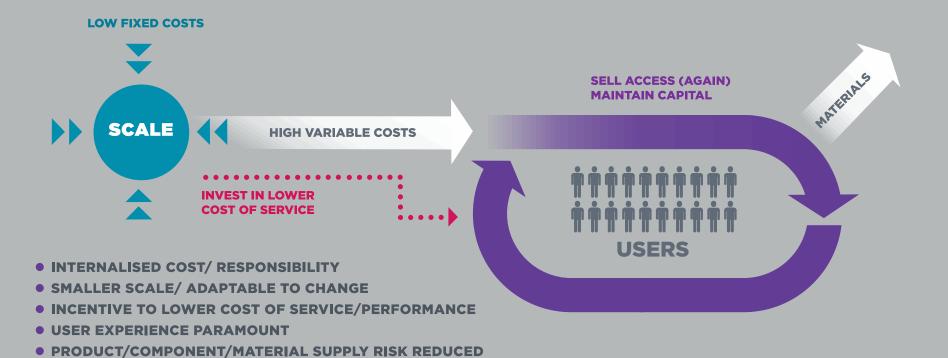






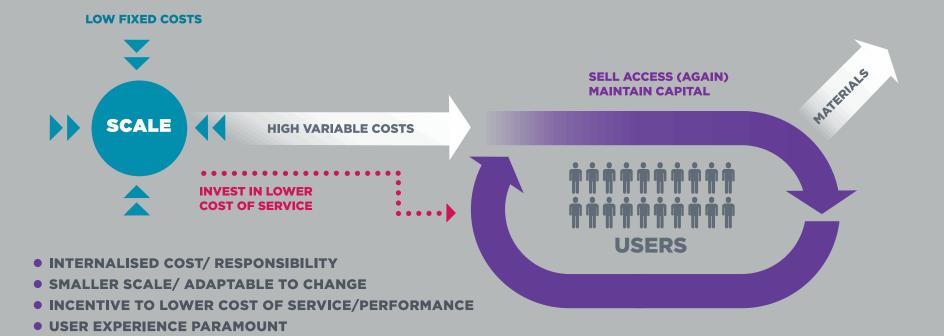






• EXTENDED PRODUCT LIFE





COMPONENTS ALSO A PRODUCT OF SERVICE

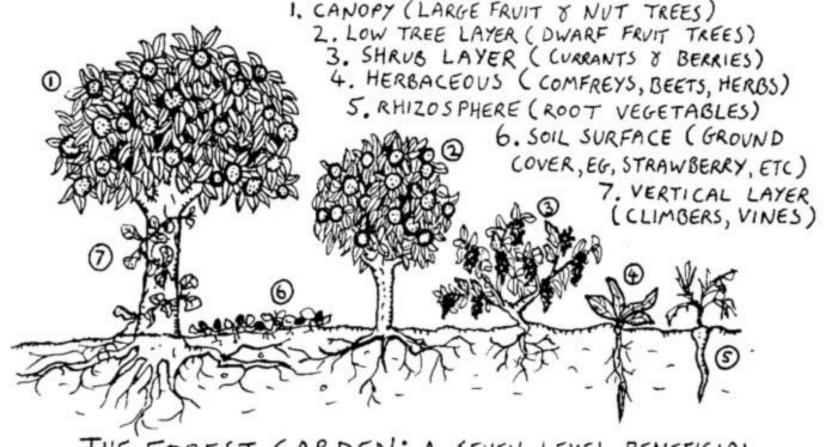
EXTENDED PRODUCT LIFE

• PRODUCT/COMPONENT/MATERIAL SUPPLY RISK REDUCED

• ICT PROVIDES FEEDBACK -USE/MAINTENANCE/ACCESS

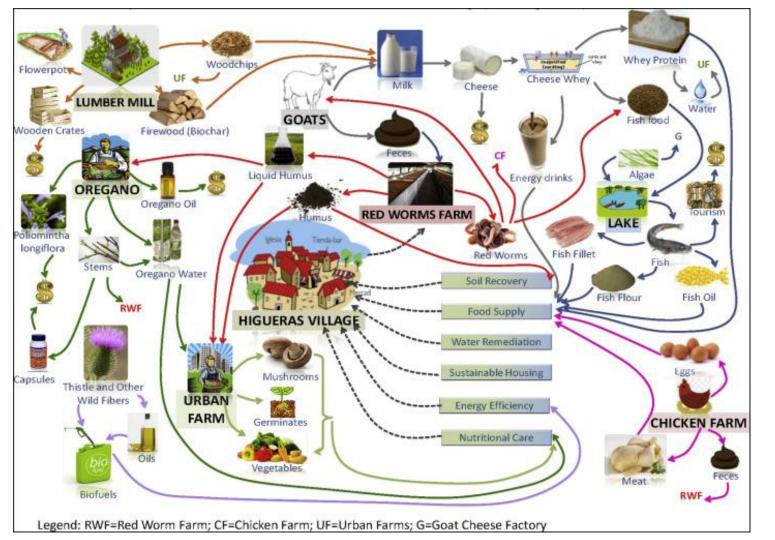


Revenue means selling access over time and reinvesting in lowering cost of service



THE FOREST GARDEN: A SEVEN LEVEL BENEFICIAL





"Generate more value for all through multiple cash flows and benefits – cascading nutrients, matter and energy"

Gunter Pauli

Diagram Carlos Scheele