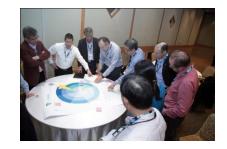


EPSRC Centre for Innovative Manufacturing in INDUSTRIAL SUSTAINABILITY

# Sustainable Business Models





PRESENTED TO IfM Open Day 2015 PRESENTED BY Steve Evans

14/05//2015











*Trends:* 2014 strong interest whenever shown

- Deployed in over 70
  businesses
- Applicable to across business stages
- Works in multiple sectors

#### Drivers:

- Uncertainty in future operating conditions
- Technological and societal advances
- Growing opportunity for significant and disruptive changes

# What is the problem?

• Tools for sustainable business modelling :

- Rethinking the business purpose sustainability into the core of the business
- Taking a longer term and system-wide perspective on value rather than short term gain
- Broader range of stakeholders
- Companies may not be fully aware of the full range of value outcomes of their business operations sustainable value
- Value for a network of stakeholders aligning conflicts/frictions
- Structured approach to think about value













Prof Steve Evans Dr Padmashi Rana Dr Nancy Bocken Dr Sam Short Dr Doroteya Vladimirova Dr Maria Holgado Dr Dai Morgan Dr Curie Park Ms Miying Yang Ms Fenna Blomsma

## **Sustainable Business Modeling Process**



k guide: http://www.industrialsustainability.org/media/434 Sustainable\_Business\_Modelling.pdf





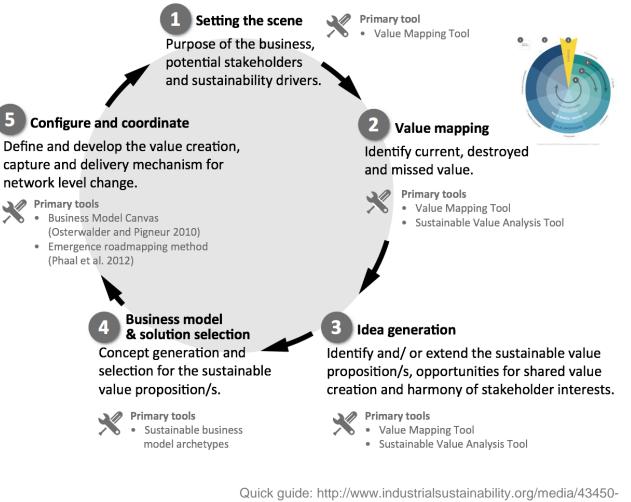






Prof Steve Evans Dr Padmashi Rana Dr Nancy Bocken Dr Sam Short Dr Doroteya Vladimirova Dr Maria Holgado Dr Dai Morgan Dr Curie Park Ms Miying Yang Ms Fenna Blomsma

## **Sustainable Business Modeling Process**



guide: http://www.industriaisustainability.org/media/43 Sustainable\_Business\_Modelling.pdf





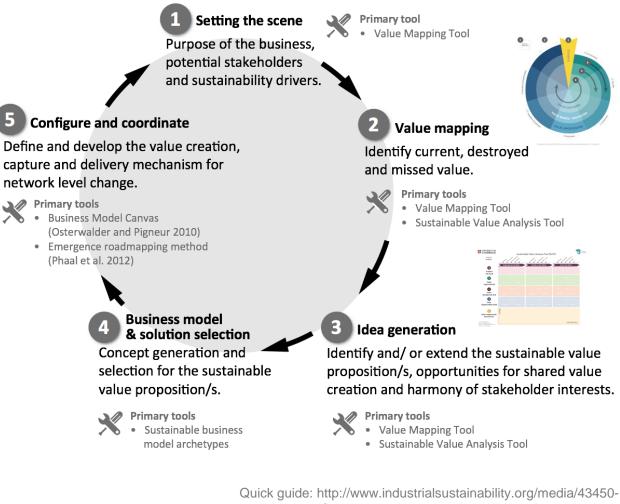






Prof Steve Evans Dr Padmashi Rana Dr Nancy Bocken Dr Sam Short Dr Doroteya Vladimirova Dr Maria Holgado Dr Dai Morgan Dr Curie Park Ms Miying Yang Ms Fenna Blomsma

# **Sustainable Business Modeling Process**



guide: http://www.industriaisustainability.org/media/43 Sustainable\_Business\_Modelling.pdf





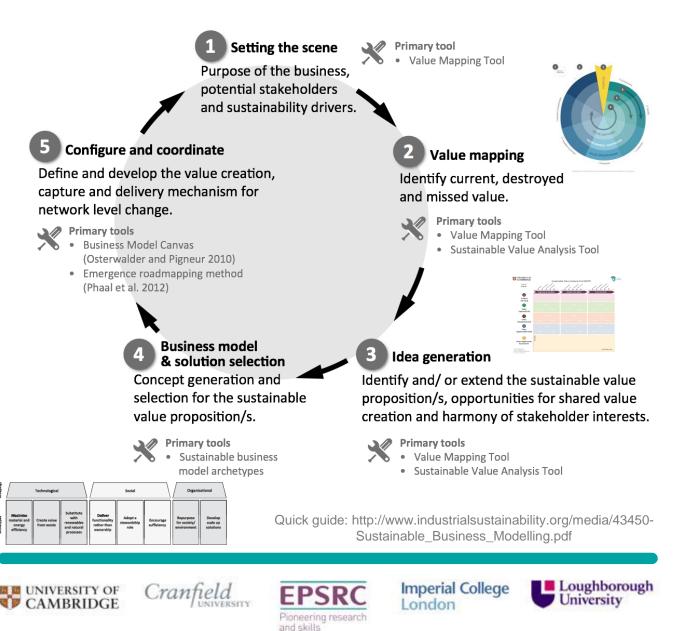






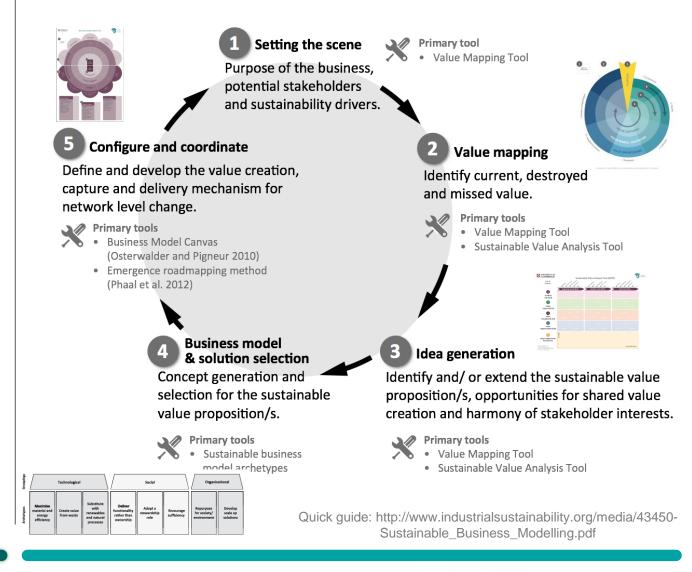
Prof Steve Evans Dr Padmashi Rana Dr Nancy Bocken Dr Sam Short Dr Doroteya Vladimirova Dr Maria Holgado Dr Dai Morgan Dr Curie Park Ms Miying Yang Ms Fenna Blomsma

# **Sustainable Business Modeling Process**





## **Sustainable Business Modeling Process**













Full process is 2 days of workshop activities.

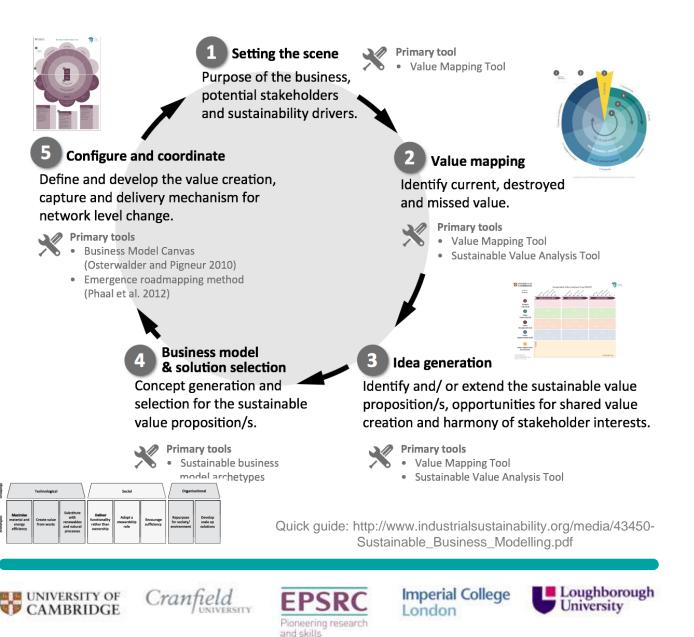
May be separated by a period of assumption testing

Level of information is always business confidential

Case studies are difficult to put into the public domain

"I would not give a fig for the simplicity that lies on this side of complexity but I would give my life for the simplicity on the other side of complexity" Oliver Wendell Holmes Snr

# **Sustainable Business Modeling Process**





# **Example: Value Mapping**







Imperial College London





Is your business getting the full benefit of the value you are creating for customers and other stakeholders?

Could your business be actively destroying value for others, ultimately affecting the firm's ability to capture value in the long run?

# Value Mapping Tool

Companies may not be fully aware of the full range of value outcomes of their business operations.

Elicits failed value exchanges among multiple stakeholders in the business network and uncovers new value opportunities.

- New perspective on value captured/uncaptured
- Failed value exchanges stakeholder tensions
- Multi-partners network level analysis
- Structured approach to think about value.













#### Workshops

Used with other tools including:

Osterwalder and Pigneur, business model canvas (2005)

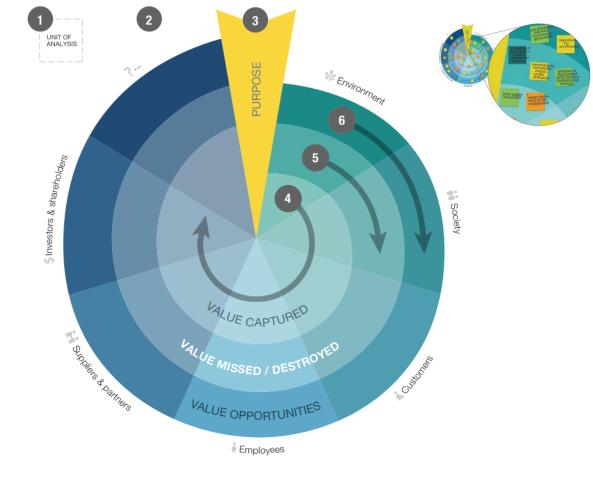
Sustainable business archetypes

IfM roadmapping tool

Sustainable Value Analysis tool

Business Transformation tool

# Value Mapping Tool



"Value Mapping Tool" Copyright @ EPSRC Centre for Innovative Manufacturing in Industrial Sustainability 2014 - All rights reserved

Quick guide: http://www.industrialsustainability.org/media/43468-Value\_Mapping\_Tool.pdf







Imperial College London





#### Structure

- Form a group
- One person in the group to represent one or more of the following stakeholders (few examples):
  - Customers
  - Suppliers
  - Environment
  - Society
  - Investors and shareholders
  - Employees
- 6 Step process
- Prompt questions for each step
- 2-3 hours to run

CAMBRIDGE





Imperial College London



Workshop



Demo workshop at CIS conference – 6-8 July CISL Course – 16/17 July ECS Course – Autumn / Winter 2015

# Where next?

# • Tools continue to evolve

- New versions set for release in June
- Deployed in multiple CIS member engagements
- Under consideration by UN
- Parts are in development outside of Academia
  - O Plan C Netherlands
- Training for in business Practioners
  CISL ECS iema
- Licensing to accredited consultancies













### Thank You FIND OUT MORE

- Speak to Ian Bamford or Prof Evans
- Visit the website:
  - O www.industrialsustianbility.org/tools
- Contact:
  - O Info@industrialsustianility.org
  - O <u>se321@cam.ac.uk</u>













# Thank You



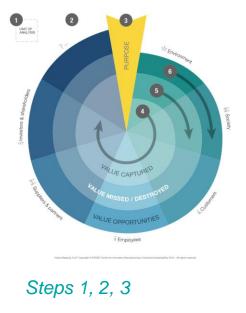




Imperial College London







- Define the unit of analysis (Company, business unit, or product/service)
- Add or modify any missing stakeholders

#### Prompt question:

Which entities, organizations or individuals have influence or involvement in your business operations, or are influenced/ impacted in any way by your business?

#### • Identify the business purpose of the unit of analysis

Prompt questions:

- What is the primary reason(s) for the existence of your business?
- Consider why should any of your stakeholders, particularly the customer, care about the existence or continuation of the business?



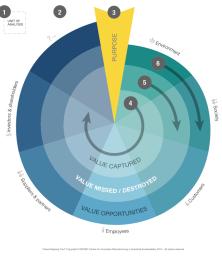












#### Steps 4 & 5

#### • Map current value captured for each stakeholder Prompt questions:

- What positive tangible and intangible value is created for each of your stakeholders? For example, why does your customer buy from you?
- Does the business network mitigate or offset some negative outcomes in full or in part (such as carbon emissions)?

#### • Map value missed and destroyed for each stakeholder Prompt questions:

- What are the negative outcomes of the business for any of your stakeholders? *E.g., environmental impacts such as pollution*
- Is there a potential or perceived risk of value being destroyed by continuing 'business as usual' practices – for example, risk of reputational damage, loss of customers
- How might the business be missing an opportunity to capture value, or wasting value in its current operations? E.g., *customer needs not satisfied, under-utilized capacity and capabilities*
- Is the business creating value in some form, but failing to capture value from the customer or society for this?



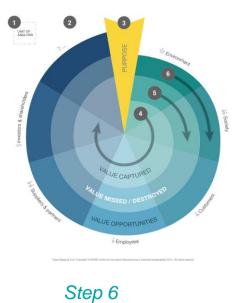












### • Generating solutions for enhancing sustainability

#### Prompt questions:

- Eliminate value destroyed
  - Where is their conflict of interests between stakeholders? (i.e. where does positive value for one stakeholder destroy value for another stakeholder(s))? how can it be resolved?
  - Relevant stakeholders should try to seek alignment (winwin), rather than compromise or trade-offs.

#### • Utilise value missed

• Identify opportunities there might be to capitalise on currently missed value to create new forms of positive value.

#### • Look for new value opportunities

- What further innovations might be possible to extend the value proposition in new and radical ways?
- How can greater value be captured from the existing business (increase the value-added content)?









