

# Industrial ecology

## Harnessing the power of the collective

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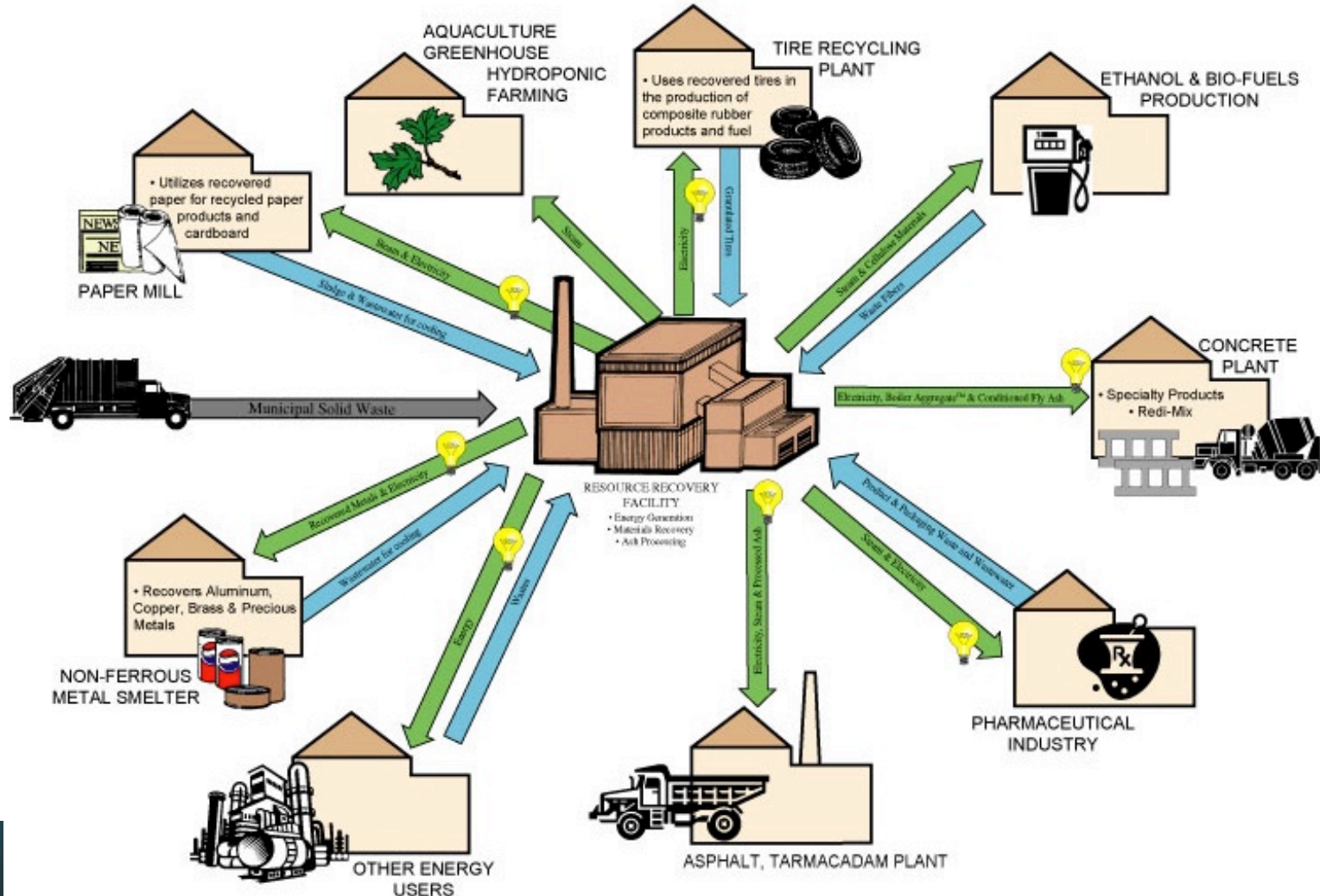
Unlocking business value through sustainable innovation

The logo for TOMA NOW, featuring the word "TOMA" in a bold, sans-serif font above the word "NOW" in a smaller, italicized sans-serif font, both in white on a dark blue square background.

**TOMA**  
*NOW*

Presentation for Circular Economy Forum Reunion Island  
Dr Jaisheila Rajput, Founder & CEO TOMA-Now  
28 September 2016

# Developing effective connected systems



- Key players & high impact areas
- Identify gaps to growth
- Implement robust, practical solutions to close growth gaps
- Translate key requirements into transparent, structured systems



## Optimised approach

Pollution controls	Implement & treat waste and emissions
Cleaner production	Process optimisation – reduce resources; substitute with non-toxic & renewable resources
Eco efficiency	Environmental strategy & monitoring management
Lifecycle thinking	Extend environmental responsibility beyond production e.g. supply chain management
Closed loop production	Restructure production processes to minimise / eliminate virgin raw materials
Synergised approach	Create environmental partnerships

## Critical success factors

Management & organisation	<ul style="list-style-type: none"> <li>- Management structure to support process</li> <li>- Capacity development &amp; education</li> <li>- Businesses but be involved from beginning</li> <li>- Transition &amp; planning must have bottom up support</li> <li>- Need (evolving) long term strategy for effective decision making at each stage</li> </ul>
Technology	<ul style="list-style-type: none"> <li>- More than exchange of by-products / waste between companies</li> <li>- Focus on resource recovery with plant focus on clean production</li> </ul>
Resource based policy	<ul style="list-style-type: none"> <li>- Need policy-level support / incentives</li> </ul>
Cleaner production	<ul style="list-style-type: none"> <li>- Must be viewed as complementary to overall strategy</li> </ul>
Recognition	<ul style="list-style-type: none"> <li>- Excellent management, systems and structures must be recognised</li> </ul>

## Obstacles & opportunities

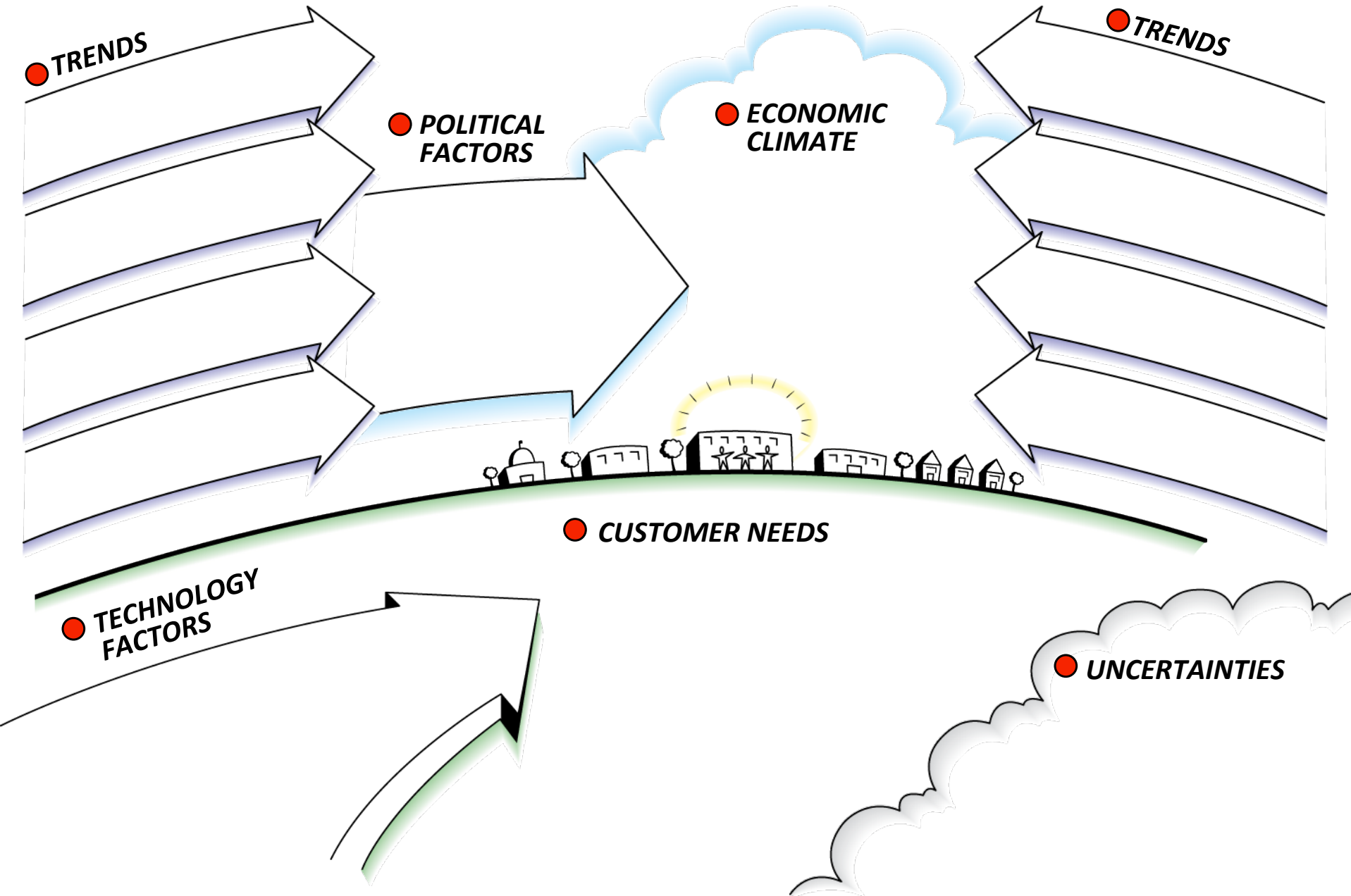
### General Obstacles :

- What difficulties do companies and industries encounter in implementing industrial ecology actions?

### General Leverages :

- What solutions could be developed to remove challenges for,
  - Industrial development
  - Public intermunicipal cooperation: Planning of joint development zones

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● TRENDS

● POLITICAL FACTORS

● ECONOMIC CLIMATE

● TRENDS

● TECHNOLOGY FACTORS

● CUSTOMER NEEDS

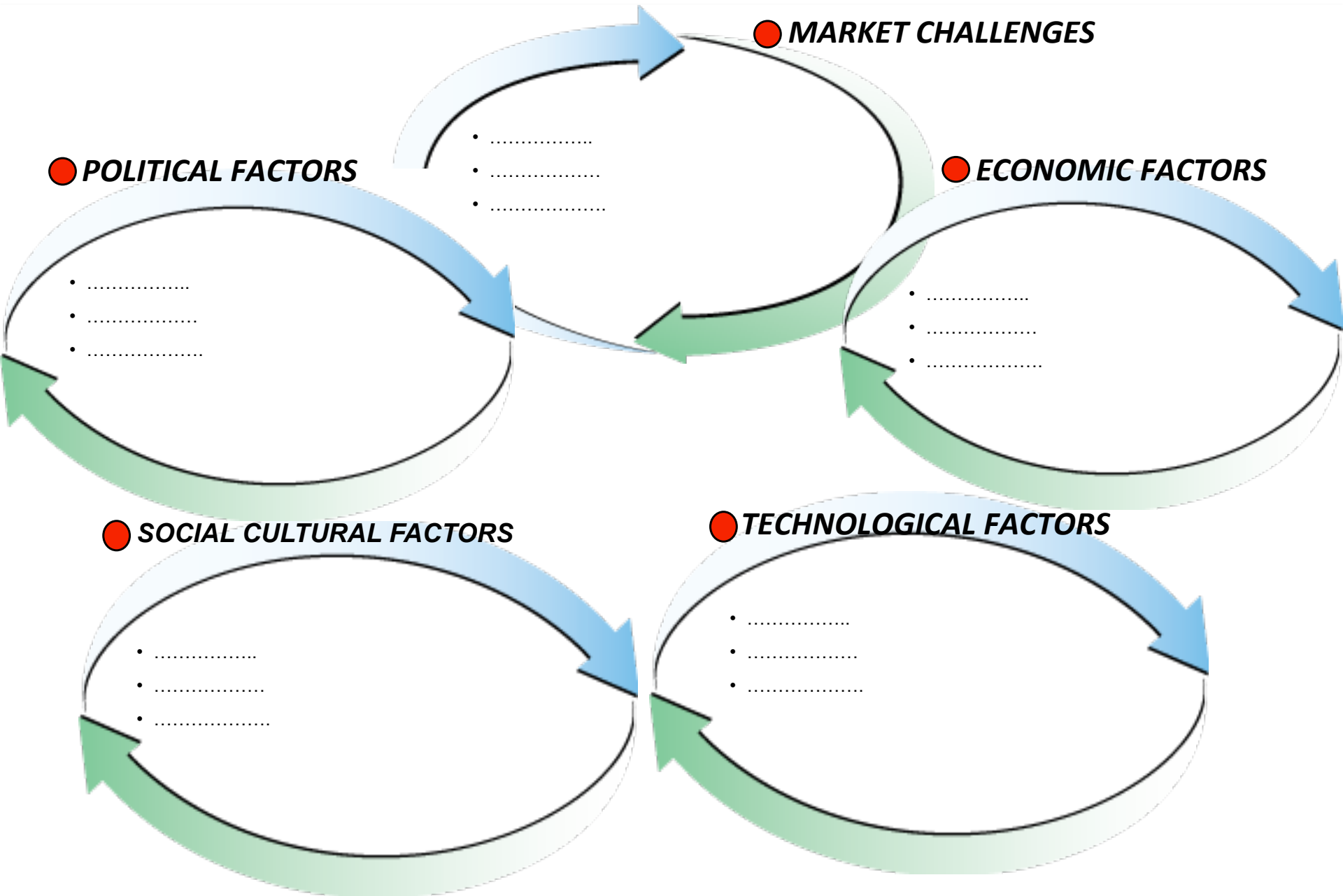
● UNCERTAINTIES

## Collaborative approaches

### Build and use collectively

- How to collectively build local dynamics and synergies: What is needed?
- Managing complex supply chains — creating greater transparency while harnessing the power of a collective





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