



MANCHESTER DISTRICT

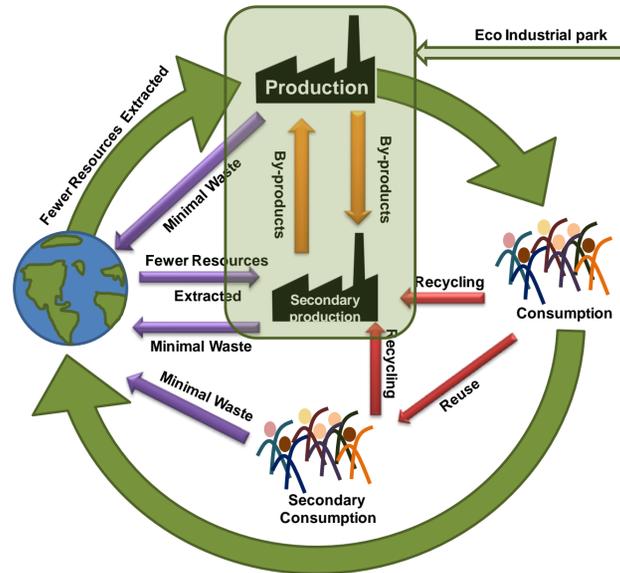


Driving Industrial Evolution

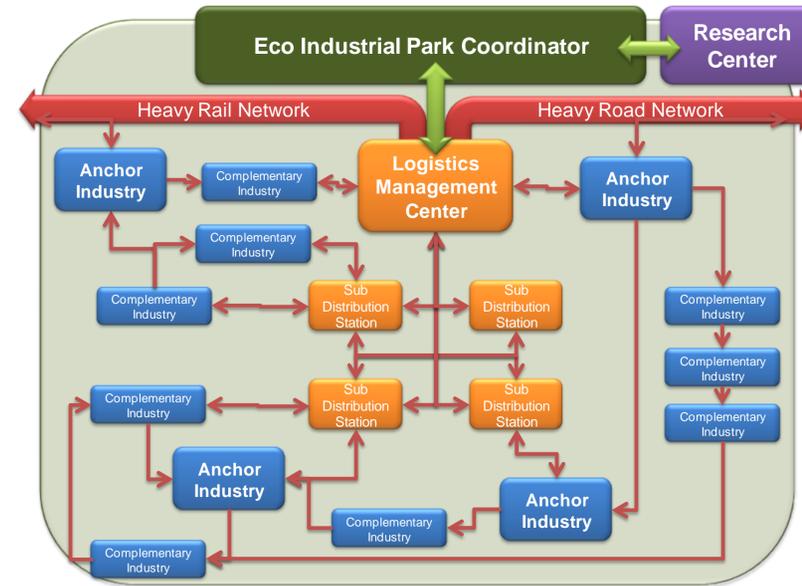
Industrial Ecology

- Symbiotic Industrial System
- Enhancing Material Flows and better Resource Utilization.
- Minimal Waste Production.
- Promoting Sustainability.

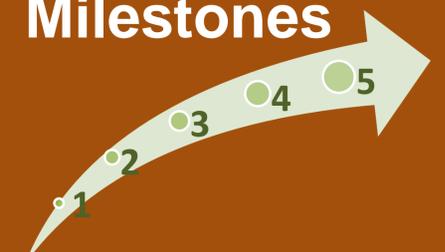
Industrial Ecology Process



Manchester Eco-Industrial Park



Milestones



1. Institute Project Leadership and Acquire Political Support.
2. Creation of Coordination Agent, Logistics Management and Research Structures.
3. Establishing Anchor Industries and Identify Existing and Potential Linkages.
4. Generate Symbiotic Linkages Between Anchors and Complementary Industries.
5. Accomplishment of Significant Industrial Symbiosis.

Park Coordinator

- Finding new connections for cooperation.
- Enhancing the dialogue between shareholders.
- Maintaining and managing services .
- Supporting material and energy flows.
- Recruiting new companies .
- Improving the environmental performance of the park and individual companies.
- Maintaining an information system.
- Informing companies in the park.
- Linking companies and public organizations.
- Developing marketing.
- Provide and manage shared park services.

Logistics Management

- Centralized Logistics Management Center assisted by Sub Distribution Stations .
- Inventory management , performance and productivity enhancement strategies.
- Specialized Multi-Modal Logistics Management.
- Fixed infrastructure, rail, motorized and human powered material exchanges.
- Facilitate better relationships between industrial firms
- Promote connectivity between internal and external industrial and commercial activities.
- Manage material and products inputs, outputs and transfers.
- Create ad-hoc high efficiency logistic solutions.

Industrial Activities

- Create employment sources and economic growth for the district.
- Cooperate with Eco Industrial Park Initiatives.
- Design products that can be incorporated into new processes after intended life cycle as technical nutrients.
- Develop new processes that incorporate industrial ecology principles.
- Utilize low pollution and risk materials in all manufacturing processes.
- Focus on production of local demanded products and services.
- Supply sufficient production to comply with the district's needs.

Research and Development

- Research Center
- Promote industrial innovation.
- Incentive open source research.
- Create solutions for emerging challenges in the application of industrial ecology.
- Develop new applications for low risk, higher ecological materials for existing industrial processes.
- Encourage multi firm cooperation and evolution of industrial activity in the district.