

# Planning & Building for Sustainability

## Session 3 – Planning for Sustainable Communities

### Integrating Sustainability into Masterplans - Industry Perspective -

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Tuesday 17<sup>th</sup> June 2008

# Agenda

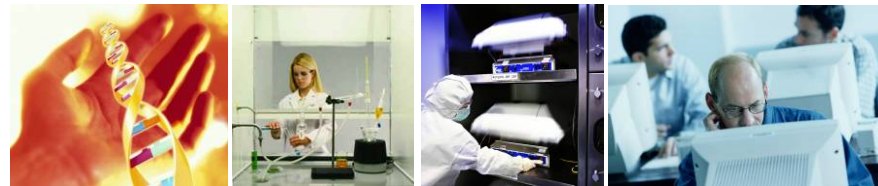
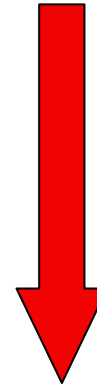
1. **Industry in Ireland**
  - Historical Context
  - Current Trends
  
2. **Masterplanning for Industry**
  - Opportunities and Challenges
  - How do we Address?
  
3. **Sample Case Studies**
  - Shannon Free Zone, Shannon
  - Ringaskiddy, Cork Harbour
  
4. **Conclusions**
  - Learning from the Past
  - Planning for the Future

# Industry in Ireland

- Responsibility for Masterplanning
  - State Development Agencies e.g.,
    - IDA Ireland
    - Shannon Development
  - Local Authorities
    - Development Plans
  - Individual Developers & Industries

# Industry in Ireland

- Manufacturing
  - Globalisation
  - Knowledge Economy
  - Technological Advances
  - High Value
    - Biopharmaceuticals
    - Medical Technologies
    - ICT
    - Digital Media
    - Engineering



# Industry in Ireland

- Service Sectors
  - International Services
  - Financial Services
  - Supply Chain Support Services
    - R&D
    - Design & Dev
    - Sales & Marketing
    - Distribution



# Industry in Ireland

Changes in Overall Employment Numbers by Sector – 2002 to 2006\*

Miscellaneous Manufacturing	-24.5%
Engineering	-2.1%
Pharmaceuticals & Healthcare	+6.1%
ICT	+1.2%
International & Financial Services	+19.3%

\* Data for IDA supported companies – from Forfas Annual Employment Survey 2006

# Sustainability Impacts - Opportunities

- Less Energy Intensive
- Reduced CO2 Emissions
- Reduced Pollutant Emissions
- Reduced Waste
- Less Hazardous Operations
- Easier Community Integration

# Sustainability Impacts - Challenges

- Legacy Sites
- New Landbanks Required
- New Infrastructure Required
  - IT / Telecoms
  - Roads & Public Transport
- Matching Business with Local Skills

# How can we address these challenges?

- Legislation
  - Planning & Development
  - Emissions Trading
- Government Policy
  - NDP / NSS / RPG
  - DoEHLG Guidelines
- New Techniques
  - e.g., GreenPrint



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- 120 hectares of land under industry
  - 120 hectares of greenfield land zoned for industry
  - World scale cluster of advanced engineering and international traded services
  - 7,000 employees across 100+ businesses

## **Case Study 1- Shannon Free Zone, Shannon, Co. Clare**

- 500 acres of land under industry
- 800 acres of greenfield land zoned for industry
- World scale cluster of biopharma & healthcare industries
- 5,000 employees across 10 main sites

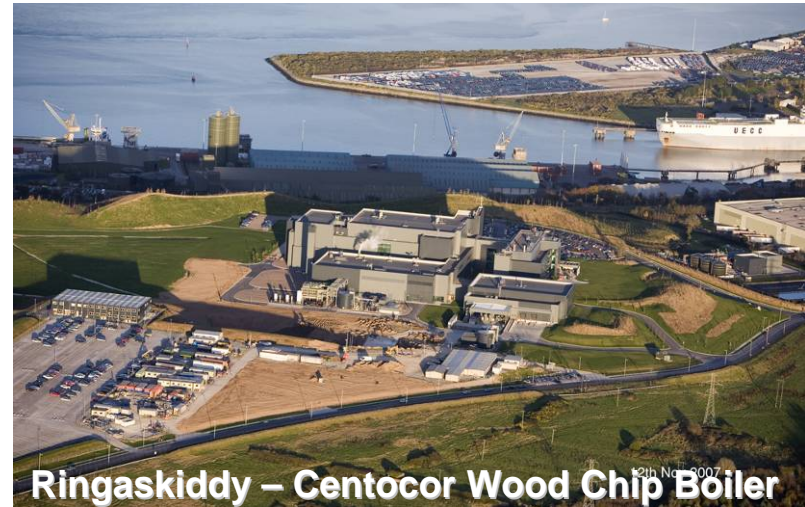


## Case Study 2 - Ringaskiddy, Cork Harbour

# Climate Change



- Community Energy Schemes
- Renewable Energy
- Reduced Water Consumption
- Flood / Risk Management



Ringaskiddy – Centocor Wood Chip Boiler



SFZ – Open Drainage Channels

# Transport



- Pedestrian Access
- Cycle Access
- Public Transport
- Mobility Management Planning
- Traffic Impact Assessment



SFZ – Public Transport Improvements



Ringaskiddy – Traffic Impact

# Placemaking



- Defined Public and Private Spaces
- Clear Identity
- Easy to Navigate
- Sense of Place
- Sense of Arrival
- Sense of Ownership



# Resources



- Regeneration v's Greenfield
- Reuse of Materials
- Construction Waste Management Plans
- Use of Low Impact Recycled Materials
- Locally Sourced Materials



# Ecology



- Protect Existing Habitats
- Robust Planting
- Minimise Potential for Ground Pollution



# Community



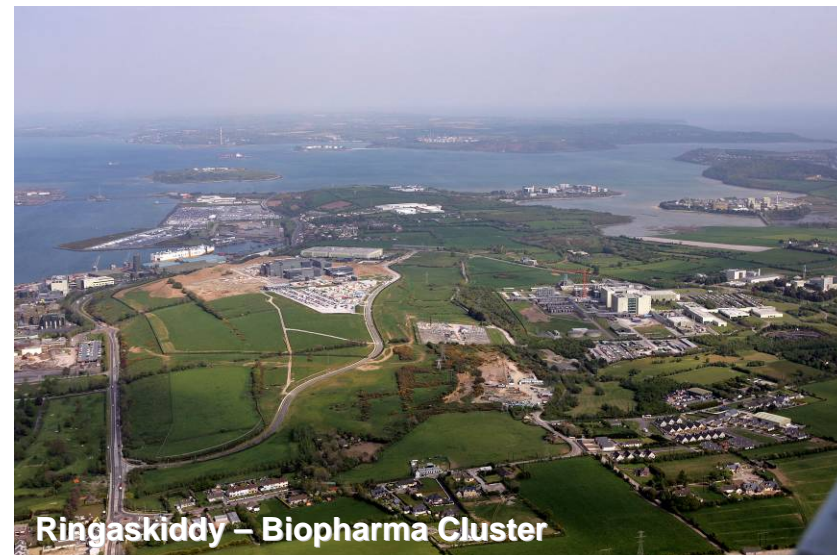
- Social Impact Assessment
- Local & Business Community Involvement in Planning
- Sense of Ownership
- Accessibility
- Local & Business Amenities



# Business



- New Skilled Jobs
- New Business to Complement Existing
- Match Businesses with Local Skills
- Promote Knowledge Sharing
- Encourage Sustainable Business Practice



# Buildings



- Standards for New Office Buildings
- Standards for New Industrial Buildings
- Standards for Refurbishment of Buildings



# Irish Industry's Sustainability Report Card

Buildings		Good	
Business		Good	
Climate Change		Improving	
Resources		Improving	
Ecology		Improving	
Transport		Must do better	
Placemaking		Must do better	
Community		Must do better	

Thank You

