

# The Grangemouth Cluster: Potential Global Opportunities for Scotland

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# Grangemouth



# Grangemouth: Scotland's largest industrial area

- Considerable potential for further development and growth
- Lead container port for Scotland
- Significant economic impact currently generated:
  - 3800 direct employees
  - £1bn GVA



# The Vision

## Partnership Approach:

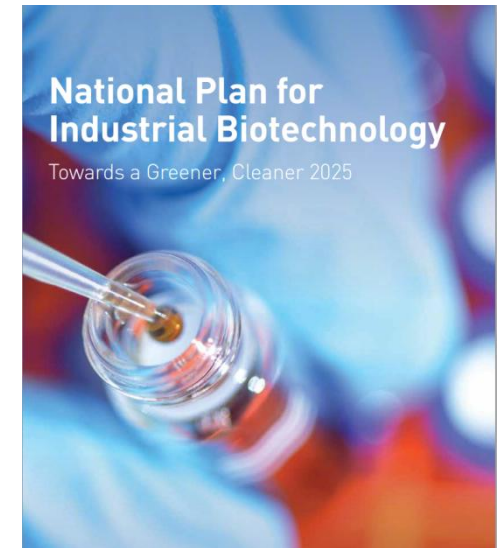
Primary objective is to establish Grangemouth within the UK and EU as a leading destination for new investment in Chemical Sciences and other sustainable high value manufacturing businesses and to attract new investment through co-location of downstream users

# Critical Enablers

- Reduce the cost of chemical feedstock
- Ensure supply of skilled personnel in short, medium and long term
- Reduce costs of energy and utilities
- Develop co-location proposition
- Sustainable HVM
  - New processes e.g. Industrial Biotechnology
  - Shared services and utilities
  - Adopting SMART grid/ circular economy approach to the area
  - Enabling regulatory regime

# Industrial Biotechnology Programme

- IB plan launched 2013
- Ambition is to raise turnover of manufactured goods using at least one biological step from £189M to £900M by 2020
- Development of a Biorefinery / Biochemical facility
- Alignment between this and Scotland's IBioIC and CMAC (Continuous manufacturing) centres of excellence



# Progress to Date

- UK Chemicals growth strategy to promote re-shoring, supported by Scottish Government strategy to support re-industrialisation of Scotland with a focus on high-value manufacturing
- Development of a specific Chemicals manufacturing strategy to support sector growth, will be completed November 2014
- Participation in EU Vanguard Initiative with focus on Smart Specialisation.
  - Particular areas of expertise in continuous manufacturing (CMAC) and Industrial Biotechnology (IBioIC)
- Supporting INEOS
  - importing shale gas from USA (ethane only) as chemical feedstock from 2016 for 15 years
  - granted exploration license for 'unconventional gas' around Grangemouth area
  - recently agreed to purchase combined heat and power plant on Grangemouth site from Fortum to secure supply

# Scottish Enterprise Support

- Working with industry leadership (Chemical Sciences Scotland) to develop an export development plan
- Supporting large infrastructure developments on Grangemouth site as well as local business support
- Lead development of a biorefinery roadmap, to be completed Nov 2014
- Work with International colleagues (SDI) to attract key customers and supply chain businesses to Scotland
- Exploring SMART cities / grid possibilities to facilitate shared utilities
- To lead on identification of EU funding streams and develop strategies to deliver these
- Working with colleagues in Skills Development Scotland to product a sector specific Chemicals Skills Investment Plan



# Thank you and Questions

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