



NorthEast Process Industry Cluster

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# Introduction

 North East England is home to major transnational pharmaceutical companies including GlaxoSmithKline (GSK), Merck Sharp & Dohme (MSD), Lundbeck, Avecia, sanofiaventis, Nicholas Piramal, SSL International and Aesica Pharamceuticals

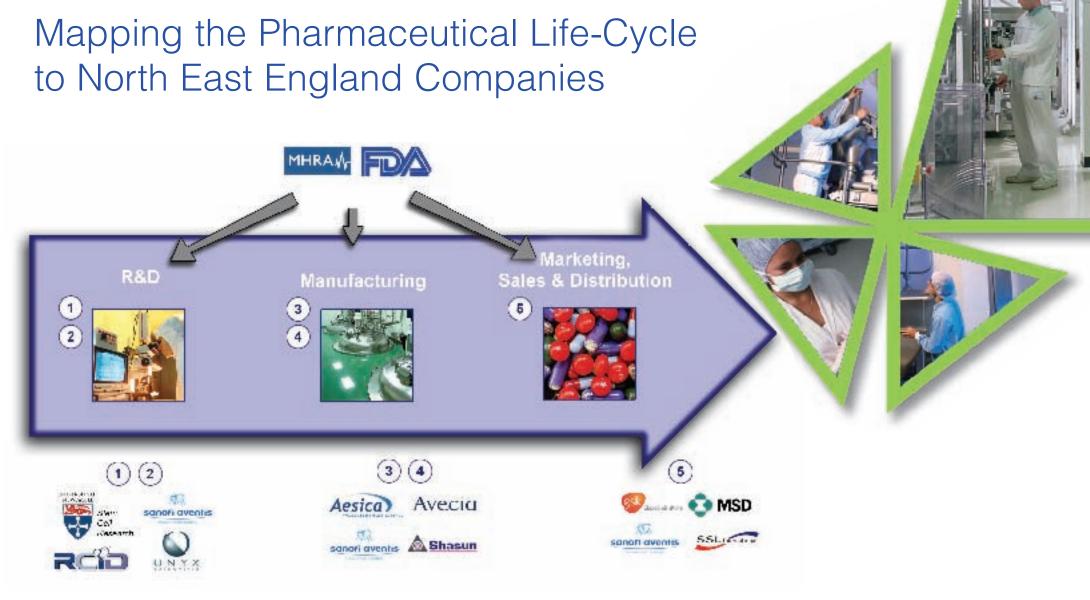
 Other major pharmaceutical intermediate suppliers are based in the North East, including BASF, Shasun, Evonik Degussa Seal Sands, Dow and Johnson Matthey Catalysts.

• North East England contributes one-third of the UK's GDP generated by pharmaceuticals at £1.5bn.

• More than 280 companies have their core businesses in North East England's life sciences, pharmaceuticals and biotechnology sectors, with another 200 companies in the supply chain.

 North East England has one of the largest and newest contract bio-pharmaceutical manufacturing facility in Europe, a major development by Avecia Biologics.

- North East England is home to leading edge biotechnology companies such as Avecia Biologics, Novocastra, Cambridge Research Biochemicals and Thermo Fisher Scientific.
- North East England has been issued with the only UK licence to carry out somatic cell nuclear transfer, at the Life Knowledge Park in Newcastle. This pioneering stem cell research will make significant contributions to medical knowledge, leading to the development of new medicins.
- North East England is a prime research area in regenerative medicine stem cells, oncology, genetics, neuroscience, Alzheimer's, disease prevention and health informatics.
- North East England's universities are internationally renowned for medicine, biotechnology, pharmacy, process engineering and regularly produce spinout companies.
- North East England's pharmaceutical companies have benefited from the product focus and incentive of the regions process sector.



## Key Elements of the pharmaceutical life-cycle:

- 1: Pre-clinical research & development
- 2: Clinical research & development
- 3: Pilot-scale manufacturing
- 4: Full-scale active pharmaceutical ingredient/intermediate manufacturing
- 5: Formulation, packaging & distribution

#### Parallel support activities include:

Analytical Sciences
Construction
Contingency Planning
Financial Services
Laboratory Facilities

Maintenance
Manufacturing sites
Operation
Procurement
Validation



# Example company profiles





















## Pre-Clinical Research & Development Companies

sanofi-aventis Nonlinear Dynamics

Applied Imaging International

Cambridge Research Biochemicals

## Pilot-scale, Intermediate & API manufactoring companies

**Onyx Scientific** 

Shasun Pharma Solutions

Evonik Degussa Seal Sands

High Force Research

Aesica Pharmaceuticals

Nicholas Piramal

## Clinical Research & **Development Companies**

The Specials Labatory

**SCHIN** 

Centre for Health Services Research Datatrial

# & Distribution Companies



Merck Sharp & Dohme sanofi-aventis



Nicholas Piramal

SSI International















# Example company profiles

Pre-Clinical Research & Development Companies - sanofi aventis

sanofi aventis is the world's third largest pharmaceutical company, ranking number 1 in Europe. It is developing leading positions in seven major therapeutic areas: cardiovascular, thrombosis, oncology, metabolic diseases, central nervous system, internal medicine and vaccines. The site at Alnwick is the focus of pre-clinical drug discovery and development.

Pilot-scale, Intermediate & API manufactoring companies - Evonik Degussa Seal Sands

A multinational organisation, with a key site near Middlesbrough, and supplying intermediates to the pharmaceutical and chemical industries. As the world's leading specialty chemicals manufacturer they offer the broadest portfolio of products and services available in the market covering the whole value chain of pharmaceutical development and manufacturing.









Formulation, Packaging & Distribution Companies - Merck Sharp & Dohme

MSD's site in Cramlington, Northumberland, was established in 1975. It was the first pharmaceutical site in the world to introduce fully-automated tablet production and its status sourcing a number of tablet products for worldwide markets makes Cramlington a strategic site for pharmaceutical production at Merck.



# Selected support companies to the pharmaceutical sector in North East England - some of the 200+ organisations that provide services

### Life Sciences Support

AES Laboratories - analytical & environmental services.

Cambridge Research Biochemicals - peptide & antibody synthesis.

ChemiSPEC - chemical analysis.

Edwards' Analytical - packaging analysis.

Thermo Fisher Scientific - cell culture & bioprocessing systems.

Intertek ASG - laboratory analysis.

Intertek MSG - analytical science & support.

Keane Analyatical - stability testing

Atos Origin UK - computer system

The Specials Laboratory - clinical trial services.

Nonlinear Dynamics - software specalists.

WSP - environmental consultants.

## Process & Quality Engineering

ABB Global Consulting - world-leading cGMP consultants.

AMEC - project & services management.

Bassaire Containments - engineering of controlled environments

Clean Design - Laboratory & clean room engineering

CPACT - process engineering consultancy.

Davy Process Technology - process design & management.

Excelsyn - pharamaceutical engineering.

Foster Wheeler - engineering & construction.

K Home International - construction & project management.

Mottram Commissioning - process plant commissioning & validation.

## Management Services

Abacus Media - media consultants.

Career & Coaching - leadership coaching.

Dickinson Dees - legal consultancy.

Baker Mallett LLP - business consulting.

Griffon Management - recruitment.

Kelly Scientific Services - recruitment

LINK Associates - business continuity.

Mills Advertising - advertising consultancy.

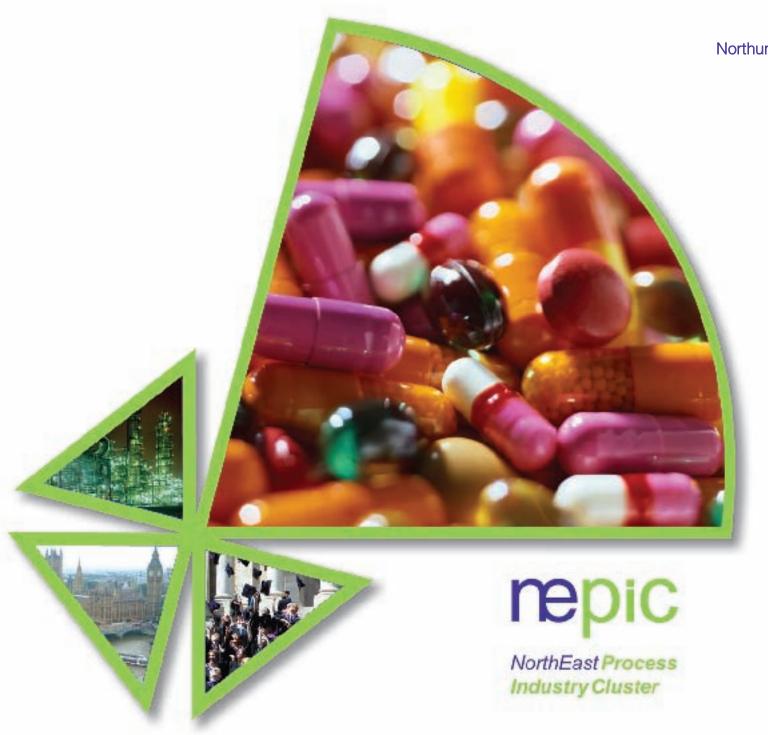
PICME - productive specialists

Polo PR - public relations consultancy.

Solutions Recruitment - recruitment.

Ward Hadaway - legal consultancy.

Wynyard Consultants - management consultants.



Northumberland - Tyne & Wear office:

RTC North
1 Hylton Park
Wessington Way
Sunderland SR5 3HD

t +44 (0) 191 516 4400 f +44 (0) 191 516 4414

Durham - Tees Valley office:
Room H224
The Wilton Centre
Wilton Redcar
Cleveland TS10 4RF

t +44 (0) 1642 442 560 f +44 (0) 1642 442 561

enquiries@nepic.co.uk www.nepic.co.uk