

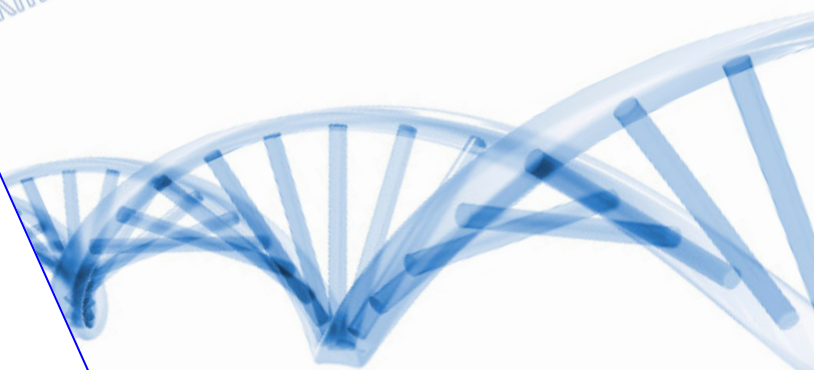
Life Sciences SSB Skills Action Plan

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Content

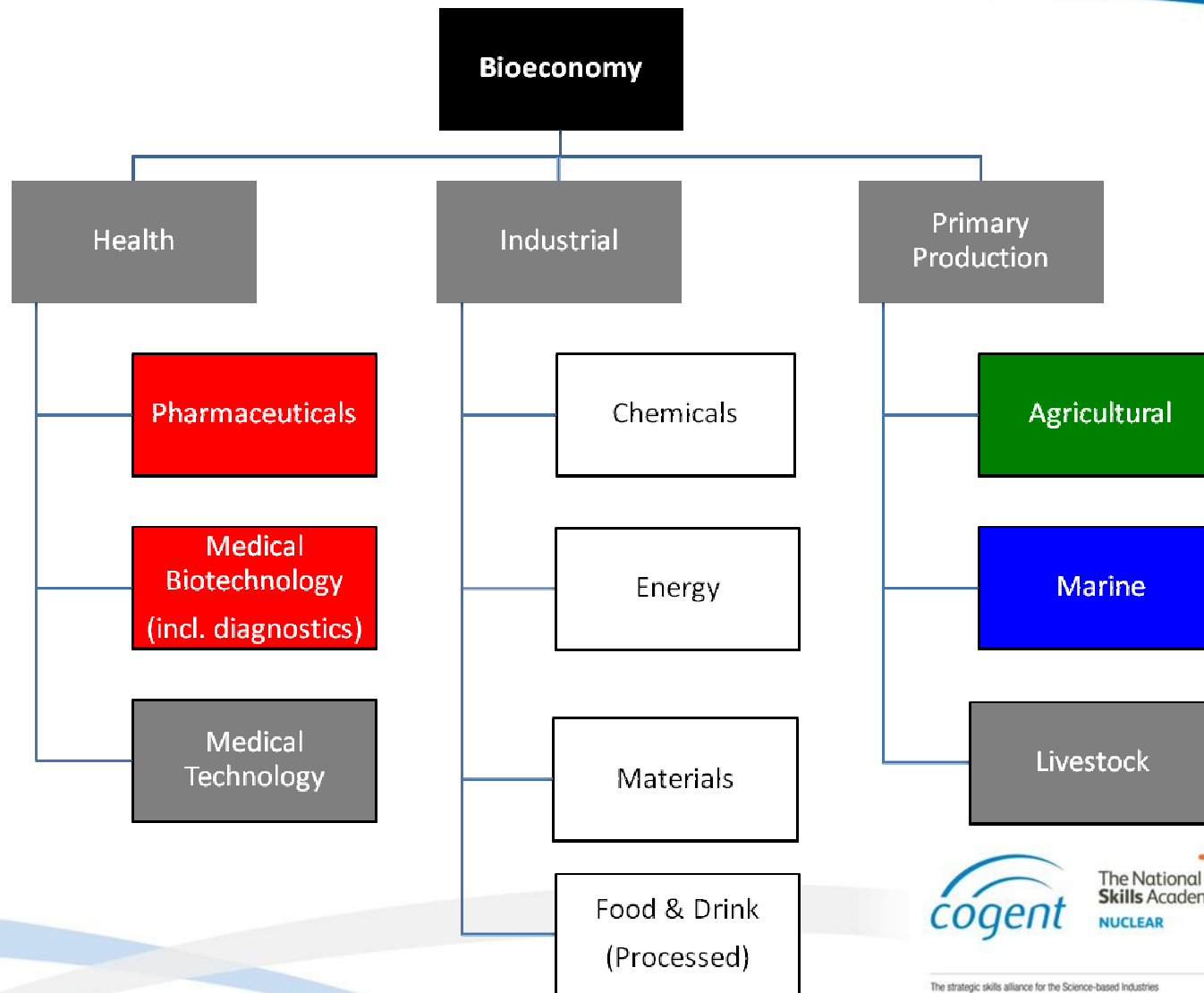
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Scope



With the ability to **genetically control and amend natural systems** to produce materials, there are immense implications for the penetration of biotechnology across **traditional industries whose products are essentially molecular**— pharmaceuticals or chemicals, for example. In the future these industries will increasingly **become life science industries whose products are essentially bio-molecular**, and they will contribute to a growing **bioeconomy** in the UK; a bioeconomy that promises **energy sufficiency, environmental sustainability, health benefits, and long-term economic growth.**

Scope - the Bioeconomy



Many Voices!





HM TREASURY

BIS
Department for Business
Innovation & Skills

The Plan for Growth

1.65 '...In the life sciences sector, the Government will work to improve market signalling by bringing companies and educators together, through Cogent, the Sector Skills Council, to ensure that educators provide the skilled individuals the sector needs to grow.'

2.205 'This action will form part of a package of measures Cogent will present to Government, by spring 2011, to ensure biology training at all levels meets employer needs.'

March 2011

 cogent | Skills for Science
Based Industries

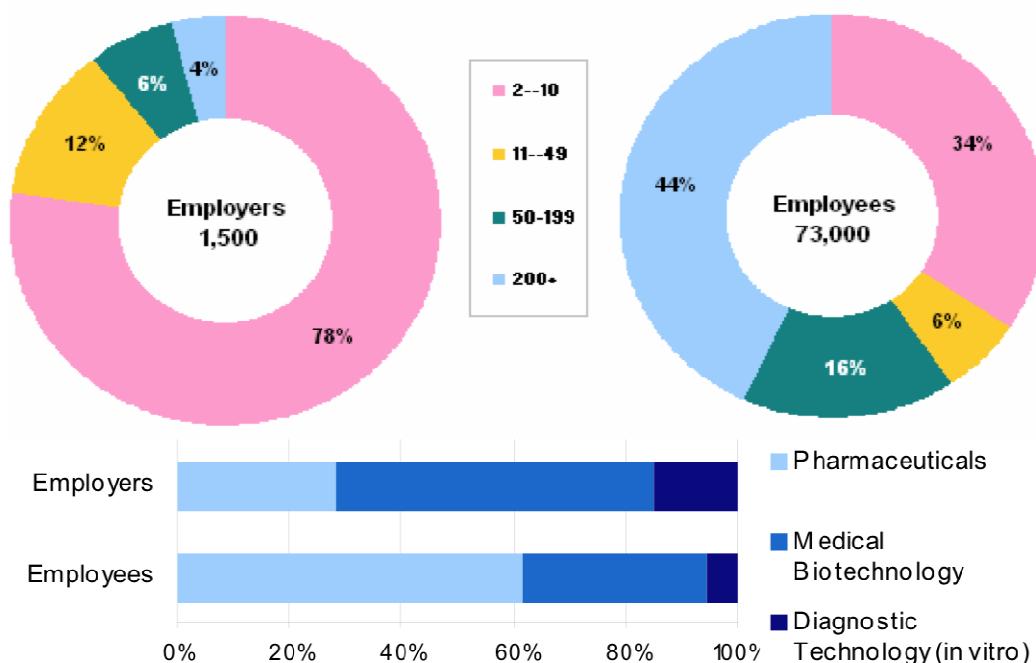
Ambition 4

*A more educated workforce
that is the most flexible in
Europe*

 National Skills Academy
 The National Skills Academy
PROCESS INDUSTRIES

Focus – 1 Where change is driven

Pharmaceuticals and Medical Biotechnology



- Multinationals and SMEs
- 73,000 employed
- £20 billion
- 4th largest exporter within Europe
- £190,000 in GVA per employee

Structural change
Growth in specialist services
Growth in SMEs

Focus – 2 Where evidence drives

Infrastructure

- Strategically important specialist subjects
- Vocational HE
- Industrial Biotechnology
- Future Skills

- ✓ ACTION 2
- ✓ ACTION 3
- ✓ ACTION 6
- ✓ ACTION 8

Supply

- Graduate Skills
- Work Experience
- Careers

- ✓ ACTION 1
- ✓ ACTION 7
- ✓ ACTION 4

Demand

- Technicians
- Leadership and Management
- SMEs

- ✓ ACTION 5
- ✓ ACTION 6
- ✓ ACTION 6

One Voice – a Skills Action Plan

Life Sci Skills Strategy Board

Life Sci Advisory Council

Skills Action Plan

Immediate action:

1. **resolve actions** on skills signals across employers and universities
2. **seek new ways** to address urgent skills gaps
3. deliver exemplar **vocational pathways** to higher education
4. articulate a **clear vision of careers** for the sector.

Medium term:

5. better utilisation of **pathways to professional status**
6. embedding **leadership and management**
7. brokering **laboratory placements**
8. **future skills demands** of the bioeconomy in general.

How – Next steps

Priorities

Resources

Leadership

Partnerships

Action