

‘The Importance of Modern Biotechnology in Job Creation in Ireland’

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Europe 2020

Objective is to address the shortcomings of the EU growth model and to create the conditions for a different type of growth that is smarter, more sustainable and more inclusive

- Five key targets areas:
 - Employment
 - Education
 - Research and innovation
 - Social inclusion and poverty reduction
 - Climate/energy

Europe 2020

- This will only be a success if it is the subject of a determined and focused effort at both the EU and national levels
- At the EU level key decisions are being taken to complete the single market in services, energy and digital products, and to invest in essential cross-border links
- At national level many obstacles to competition & job creation must be removed

Europe 2020 - targets

- **Employment:** 75% of the 20-64 year-olds to be employed (Ireland target is 69-71%)
- **R&D:** 3% of the EU's GDP to be invested in R&D (Irl 2% - 2.5% GNP)
- **Climate change and energy sustainability**
 - greenhouse gas emissions 20% (Ireland target 20%)
 - 20% of energy from renewables (Ireland target 16%)
 - 20% increase in energy efficiency (Ireland target 2.75%)
- **Education**
 - Reducing the rates of early school leaving below 10%
 - at least 40% of 30-34-year-olds completing third level education (Irl 60%)
- **Fighting poverty and social exclusion**
 - at least 20 million fewer people in or at risk of poverty and social exclusion
 - (Ireland target 186,000)

Horizon 2020

- Funding (€70 billion) will be focused on the following challenges:
 - Health, demographic change and wellbeing
 - Food security, sustainable agriculture, marine and maritime research, and the bio-economy
 - Secure, clean and efficient energy
 - Smart, green and integrated transport
 - Inclusive, innovative and secure societies
 - Climate action, resource efficiency and raw materials

Horizon 2020 - Tackling Societal Challenges

Horizon 2020 will tackle societal challenges by helping to bridge the gap between research and the market by, for example, helping innovative enterprise to develop their technological breakthroughs into viable products with real commercial potential. This **market-driven approach** will include **creating partnerships with the private sector and Member States** to bring together the resources needed

Joint Technology Initiatives (JTIs)

1. Innovative Medicines 2 (IMI2): to develop next generation vaccines, medicines and treatments, such as new antibiotics
2. Fuel Cells and Hydrogen 2 (FCH2): to expand the use of clean and efficient technologies in transport, industry and energy
3. Clean Sky 2 (CS2): to develop cleaner, quieter aircraft with significantly less CO2 emissions
4. Bio-based Industries (BBI): to use renewable natural resources and innovative technologies for greener everyday products
5. Electronic Components and Systems (ECSEL): to boost Europe's electronics manufacturing capabilities

Innovative Medicines Initiative 2

Europe's fast track to better medicines

1. Next generation vaccines, medicines and treatments, e.g. new antibiotics
2. Faster roll-out of effective and sustainable healthcare
3. Leveraging public and private research funding to lower investment barriers
4. Supporting the global competitiveness of Europe's pharmaceutical industry

Bio-Based Industries Initiative (BBI)

- Moving towards a post-petroleum society
- Replacing petrol-based products with bio-based ones
- Turning agricultural and forestry waste into useful products
- Creating new jobs and growth
- Helping farmers diversify their revenues
- Leveraging Europe's bio-based investment in research and technology

Bio-Based Industries Initiative (BBI)

It will focus on three main streams of activities

1. Feedstock, by fostering sustainable biomass supply with increased productivity and new supply chains
2. Biorefineries, by optimising efficient processing through R&D and demonstrating their efficiency and economic viability at large-scale demonstration biorefineries
3. Markets, products and policies, by developing markets for bio-based products and improving policy frameworks

The new Bio-Based Industries (BBI) JTI is expected to start in January 2014 and to end in 2020

The EUROBIOREF project

Innovative multipurpose biorefineries set up to demonstrate a biorefinery that:

- handles multiple types of biomass, such as oil plants, lignocellulosics (e.g. grasses, willow), and agricultural and forestry residues
 - processes them in multiple ways (chemical, biochemical, thermochemical)
 - produces multiple high added value bio-based products, (e.g. chemicals, biopolymers and aviation biofuels)
- www.eurobioref.org

50 ideas to drive growth

Action 8: Maximise research funding from the EU Horizon 2020 programme

Action 18: Develop a new regional growth policy

Action 21: Reduce regulatory costs on business through more effective use of RIA

Action 48: Reform public procurement to support SME innovation and drive efficiency

Link: [50 ideas to drive growth](#)