

than instead to stress where convergent efforts recommend innovation innovation drivers. The intention is not to reasoned selection of worldwide upcoming special issue proposes an insight on a December the Based on an 4,000 1st to February 28th, articles synthesis policy shifts collected 으 more from this but

> innovators' agenda: heading for. Four areas are innovation movers and shakers' on top of are the

> > innovation oriented education systems? the knowledge economy be translated into

How will service-driven systems develop

of industrial innovation-based competition? How will the profound switch to How will banks perform as bold financiers

and diffuse

transforming job markets?

How will the security motto be effectively

## Matching stakeholders' shifts

- Innovative tax policies to support innovative investments and growth drivers
- Risk sharing and Finance industry regulation to be implemented before interbank loans easily flow
- New customers to buy disruptive, sustainable and low cost products Greener cars meeting Japanese leadership
- Business innovation reviews strategies and products: putting knowledge performance at the heart
- University course and programmes as a dynamic business activity

**KNOWLEDGE EVERYWHERE** 

**INNOVATION ORIENTED** 

**EDUCATION SYSTEMS** 

**INDUSTRIAL COMPETITION** 

**BANK CREDIT TO FUND** 

Key drivers

- Innovative medicine-pharmaceutical business model-health system in search of sustainability Food and agriculture R&D jointly reinventing themselves
- Housing and building standards and new services
- Networking and enabling Information and Communication Technologies (ICT)
- Exploitation of energy complementarities
- Growing demand for ICTs for security, safety and comfort such as access control, intrusion detection Technology driven inter-sector competition
- Heavy commitment of governments and armies against multi-faceted terror threats: security promoted job provider in political campaigns scanning and trace detection

### **TECHNOLOGIES AND MARKETS** SERVICE-SYSTEMS DRIVEN

### SECURITY SYSTEMS MARKETS AS JOBS PROVIDERS

## IDEAS FOR CHANGING EUROPE

### A BUSINESSMAN'S INTEREST

A RESEARCHER'S THINKING

pursuit of the knowledge economy goal A progressive Intellectual Properties (IP) is an essential component in the

economic crisis, technologists will need more than lab expertise to convince their employers to keep the research

markets

R&D budgets shrinking and ts retrenching in a worldwide

funding spigots open

the ability

communicate

9 an IP location of choice. We need to encourage the active management of IP Ireland will need to work hard to become an IP location of choice. We need to based companies with Irish-based staff brands should also be owned by Irish related expertise, technology and As Irish-based companies look to move up the value chain, it is clear that the implementation of IP-related strategies. Irish businesses the knowledge intellectual property, through economy an

well and other "soft skills" are just as important as technological expertise when it comes to selling new ideas to

increasingly supportive tax regime, with a broad definition that will encompass all areas of IP currently available.

on aligning innovative projects with company goals. It's much easier to

Scientists and researchers should focus

investors or senior management.

justify budgets for speculative projects

obvious

<u>laxation</u> <u>Institute</u> JIM RYAN, president of the Irish

### **GRIPS Intelligence Corner**

Management programme

**Panellist,** University of Pennsylvania's Executive Master's in Technology

benefit to the parent company.

# Why intangibles cannot be patented any longer under US law

 The 'Bilski and Warsaw' case at U.S. Court of Appeals for the Federal Circuit:
(1) B. Bilski and R. Warsaw filed a US patent application in April 1997 for a 'business method claim', which aims at hedging risks in commodities trading; Signature Financial Group should no longer be relied upon. (2)In October 2008, the court rejected the patent claims, based on the reiterated 'machine-or-transformation' test and stated that the test in State Street Bank v.

• The new standard imposes that the invention must involve a machine or a physical transformation: at least four subsequent patent denials were based on the Bilski-Warsaw precedent, throwing into question all innovations that involve more mental than physical activity. Existing patents on medical diagnostic procedures and scientific data evaluations are now at risk. At the internet age, this is certainly undermining the incentive the US patent system was supposed to

## POLICY SUPPORT ON THE MOVE

THE NORWEGIAN STRATEGY FOR MARINE BIOPROSPECTING (January 2009)

WHAT MARINE BIOPROSPECTING IS

marine organisms, with the intent of developing products of commercial or social value. It mainly consists of: the collection of materials in biobanks with computer-based tools for establishing the taxonomy and properties of samples; the analytical capacity to NORWAY'S POTENTIAL FOR MARINE BIOPROSPECTING companies for commercialising products and markets. not least, adequate structures with the business proficiency, networks, capital that create a knowledge framework for developing innovative products; and, last but for establishing the taxonomy and properties of samples; the analytical capacity to assess the durability of results; research groups with competence and infrastructure The goal-oriented, systematic search for elements, bioactive compounds or genes

Marine innovations will play an important role in a knowledge-based Norwegian economy. Norwegian waters cover wide oceanic areas and has a rich biodiversity of 10,000 species, within a variety of sub-sea ecosystems. The Arctic environment is industrial processes. Further to prospective studies, as initial funding this year Norwegian Government allocates 30 million Norwegian kroner (3.4 millions of Euros) improvements in many areas of society; from medicine, to food and feed, to eco-friendly organisms will have a wide range of applications and they are expected to bring about unique properties and potentially valuable bioactive compounds. Nevertheless, the sea's potential as a resource is largely untapped. Bioactive compounds from marine temperature and special light conditions has led to the evolution of organisms with expected to be increasingly important in the future. The combination of extreme

# JOINT PROGRAMMING AND A DEDICATED MARINE BANK (MARBANK)

unit is associated with Marbank, managed by local and international industry experts. an initial funding of half a million Euros; secondly, a specialised business development biobank, MARBANK, firstly aims to centralise marine samples. Marbank was allocated Policy developments cover supporting organizational and funding schemes from basic research to commercialisation and internationalisation. A nationally owned marine Research and Higher Education, Trade and Industry and Fisheries and Coastal affairs. implementation is under the joint responsibility of the ministers of Foreign Affairs, Fisheries and Coastal Affairs The development of the strategy is under the joint responsibility of the Ministry and of the Ministry of Trade and Industry, while