



ENCYCLOPEDIA INTELLIGENT SYSTEMS LTD

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To:

Herman Van Rompuy, PRESIDENT OF THE EUROPEAN COUNCIL

José Manuel Barroso, President of the European Commission

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Subject: **the EU 2020 Strategy and Intelligent Europe Centre**

Dear Council President and Commission President,

Responding to the Commission Working Document: "Consultation on the Future "EU 2020" Strategy", our company prepared some principal suggestions on the Future Europe 2020 Strategy, the main agenda on a special EU heads of State summit in Spring 2010.

As part of the EU 2020 Strategy, we advance a proposal to launch the Intelligent Europe 2010-2020 Program for public awareness of which we have created a Wikipedia entry,

http://en.wikipedia.org/wiki/Intelligent_Europe.

Organizationally, the I-Europe Strategy could be supported by the **Intelligent Europe Centre** with its national branches as permanent EC institutions, with a view to develop and implement the Future Europe Strategy for all the Member States. To commence the I-Europe 2010-2020 Strategic Vision, a set of key strategies and actions has been worked out at three levels: trans-European, national, and local regional; the whole European Community as "[Intelligent Europe](http://en.wikipedia.org/wiki/Intelligent_Europe)", its Member State as "Intelligent Cyprus", and smart urban development projects.

There have been globally promoted intelligent nation projects, mostly in the Middle East and Northeast Asia, which are aimed to build smart intelligent communities at the levels of cities, regions, countries, and nations. The formation of knowledge communities would substantially boost the European economy, science and technology, profoundly changing key aspects of social, cultural and political life.

The implementation of the I-Europe 2010-2020 Strategy will bring enormous socio-political, economical, cultural, scientific and technological progress to the whole European Community of Member States. The critical projects to pursue the I-Europe Strategy are proposed as follows:

- **EU Intelligent Energy Grid** (unified smart power grids and green energy sources, with smart meters in every home and business);
- **EU Wisdom/Knowledge/Semantic Grid Environment** (ERA, Global Research Space, national knowledge grids, the Internet/Web of Things, Energy, Knowledge and Intelligence, with the broadband Internet and the Web knowledge services to every home and business);
- **EU Intelligent Communities** (Knowledge Regions, Intelligent City, Intelligent Lifestyle, Smart Environments, Innovative Eco-city, with intelligent urban planning and smart design to each city and development)

The I-Europe Projects implementation is a secure and fundamental way to unify the entire Continent of Europe into a single intelligent Land, Nation, and Community, ensuring a world leading position in global science, technology, economy and politics.

The Intelligent Europe Center is a necessary organization platform for building a smart intelligent sustainable Europe, the key priority of the Future EU 2010-2020 Strategy.

With respects,

Azamat Abdoullaev, PhD, ScD, I-Europe Research Consortium Coordinator

PS: Please find as attached a suggested blueprint open for further improvements and top Summit decision.

The Intelligent EUROPE Center for the Future EU 2020

The Knowledge Europe strategy had been announced as the Lisbon Strategy 2000 productively reviewed in 2005. Now it is to be reconsidered as the Future Europe 2020 Strategy, addressing principal shortcomings of the Lisbon strategy's, with a view to build Europe as the global knowledge innovative Community, where knowledge and intelligence is the engine for sustainable growth. The key part of the EU 2020 vision is viewed a genuine European Knowledge Area to be supported by a world-class integrated transport, energy, communication and knowledge infrastructures.

Knowledge assets are the most valuable resources. Building knowledge society and innovative economy is the fast way to solidarity and prosperity, social progress and growth and the overall sustainability, ecological, economic, technological, political, social and cultural.

Status and Role

The Intelligent EUROPE Center is proposed as a European Center for implementing a trans-European strategy "Smart Intelligent Europe", the key part of the Future EU 2020 Vision and Mission. The Center is to act as the think tank and the core center of strategic ideas, resources and key actions for building smart, intelligent and sustainable European Union. The IEC strategic aims and objectives are envisioned as follows:

- Transforming EU into a single Intelligent Trans-Nation (Land and State) of Knowledge and Creativity, Innovation and Commerce. Creating new values by knowledge growth, centralizing education and research, innovation and creativity, producing innovative products, services and processes
- Building smart, intelligent and sustainable cities, knowledge regions and innovation communities, sustained by innovative ICT infrastructure, Internet/Web-centric knowledge/semantic grid environment and smart ecosystem.
- Creating a unified framework of personal, social and digital intelligence as a European knowledge grid environment of intelligent communities.
- Advancing the synergy of education, research, and innovation, proposing the trans-European and national innovational programs and development projects.
- Transforming the EU Governmental bodies and structures into an integrated intelligent organization.
- Building EU into the most dynamic and competitive knowledge-based global society thus contributing to the Future EU 2020 Strategy.

STAKEHOLDERS

The President of the Council, Consilium, the European Council of the heads of member states; the Council of Europe; The Council of Ministers

European Commission: President of EC; Commissioners of Institutional Relations and Communication Strategy; Enterprise and Industry; Justice, Freedom and Security; Administrative Affairs, Audit and Anti-Fraud; Transport; Information Society and Media; Environment; Economic and Monetary Affairs; Maritime affairs and fisheries; Science and Research; Enlargement; Taxation and Customs Union; Competition; Agriculture and Rural Development; External Relations and European Neighbourhood Policy; Internal Market and Services; Employment, Social Affairs and Equal Opportunities; Energy; Consumer Protection; Multilingualism; Health; Trade; Financial Programming and Budget; Regional Policy; Development and Humanitarian Aid; Education, Training, Culture and Youth

Member States: Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and the United Kingdom
Political Parties; Banking Institutions; Public-Service Corporations; Business Groups; Telecom Corporations; Universities; Research Institutes,...

Steering Body: the IEC Supervisory Board

Honorary Chairman: PRESIDENT OF THE EUROPEAN COUNCIL, Herman Van Rompuy

Honorary Chairman: PRESIDENT OF THE EUROPEAN COMMISSION, Jose Manuel Barroso

Vice-Chairman:

Director:

Board Members:

The Advisory Council of I-Europe 2010-2020 Strategic Projects

{Chairman of the Advisory Council
Vice-Chairman;
Vice-Chairman
I-Europe Research Consortium Team}

VISION

MISSION

PLANS AND PROJECTS

ORGANIZATION STRUCTURE

IEC OFFICE BUILDING

FINANCING

STRATEGIC PROJECTS

SMART INTELLIGENT SUSTAINABLE CITIES IN ACTION

EUROPEAN EDUCATION, KNOWLEDGE, RESEARCH AND INNOVATION SPACE

TRANS-EUROPEAN KNOWLEDGE/SEMANTIC GRID ENVIRONMENT

SMART INTELLIGENT INTEGRATED GOVERNMENT: ADMINISTRATIVE SYNERGY OF THE EUROPEAN COMMISSION AND COUNCIL

VISION

The I-Europe is envisioned as the global hub and innovative Community of knowledge societies and smart nations, integrated governments, knowledge-intensive regions and cities, unified market spaces, knowledge based industries and creative enterprises, advanced power grids, ICT networks and services, intelligent social, public and commercial services, smart banking systems and financial services, high quality healthcare, innovational education and research, creative productive work environment, quality lifestyle, and human-centric social policy.

MISSION

The IEC's fundamental purpose is to unify the entire Union as a single intelligent European Union by developing smart and creative nationwide and transnational communities to be driven by intelligence, integration and innovation. Such a unique social change of the whole Union is challenging and historical. EU is fully able to transform into the hub of the Smarter Planet, as the knowledge-centered trans-national land with all the intelligent capabilities and innovation resources. A number of primary strategic projects to achieve the Vision are as follows:

- Smart, intelligent sustainable cities;
- Knowledge and innovation regional communities;
- Smart government and public services;
- Research, Science, and Technology Parks;
- Smart School Learning Networks;
- Industrial Intelligence Business Clusters;
- Advanced ICT Infrastructure in Research, Science, Technology, Education and Learning,
- Modern Transportation Infrastructure, Trans-European and Nationwide Intelligent Traffic Transportation System
- Smart Power Grids and Intelligent Energy Networks

All the critical innovations are to be driven by a unified framework of personal, social and digital intelligence, a European-wide knowledge/wisdom grid environment of intelligent communities. The Intelligent communities are to be created as 3-layer systems of innovation, combining (1) intelligent persons, organizations, businesses, (2) innovation and technology learning institutions, knowledge clusters, and (3) trans-national networked intelligence environments.

RATIONALE

Vision and science reveal what the world could be. The vision of the Europe of Knowledge, Knowledge-Intensive Society, Knowledge Base of Europe and Technological Know How was set up in the development plan of EU as the Lisbon Strategy: 'to become the most competitive and dynamic knowledge-based economy in the world..by 2010'. Unlike the industrial economies, driven by traditional physical machines and mechanisms, the knowledge economy is to be propelled with the digitized global knowledge and advanced ICT, as the Broadband Internet and World Wide Web with knowledge processing machines and semantic systems.

The i2010 strategy, the EU policy framework for the information society, has underlined three key objectives:

- to create a single European Information Space of digital economy, high-bandwidth communications and content and digital services,
- to strengthen investment and innovation in ICT research (R&D instruments, FP 7, e-infrastructures, European Technology Platform, e-invoicing framework),
- to support e-inclusion and quality life of citizens (ageing, independent living and inclusion, eAccessibility, broadband gap or digital divide, inclusive eGovernment, digital literacy, culture, e-public services as e-government and e-Health, and intelligent transport).

To achieve those ends, there are activities and innovations as regulation, funding for research and pilot projects, the internet of things and smart tags, the internet economy, digital convergence, promotion activities and partnerships with stakeholders.

I-EUROPE AS THE SEED OF INTELLIGENT WORLD

The Intelligent World is steadily emerging as a New World boosted by innovative information technologies, knowledge flows, integrated smart networks, and global supply chains of goods, services and processes.

The viable model of the European Union as the Knowledge and Intelligence based Transnational Community implies a systematical reviewing of the [Lisbon Strategy](#) aimed at "*the most dynamic and competitive knowledge-based economy in the world capable of sustainable economic growth with more and better jobs and greater social cohesion, and respect for the environment by 2010*". Launching the [Ljubljana Process](#) to revive the [European Research Area](#) as the cornerstone of Knowledge Europe is a consistent strategic move in the right direction of the World Knowledge and Research Integration Framework, the fundament of the Internet/Web of Entities, Content, Semantics, Knowledge and Intelligence.

The I-Europe Center is chiefly to be concentrated on the key elements of building Intelligent Europe as a Global Intelligent Community: Common Knowledge and Research Area, the 3W, as the worldwide networked knowledge and intelligence, and intelligent communities as cities and knowledgeable nations.

Achieving such high goals require to reconsider the whole strategy marked by an "unconvincing" progress of the Lisbon Process, to be reconsidered in the Future EU 2020 Strategy. We foresee the I-Europe as the Knowledge based Intelligent (European) Community which knowledge infrastructures involve the Intelligent Web and Future Internet of Things, Knowledge and Intelligence, and a single European Research Area.

The I-Europe strategy uses a comprehensive and holistic approach to developing a smart, creative and learned Community driven by **intelligence** (social and technological), **integration** (social and technological) and **innovation** (social and technological).

The rise of intelligent cities (communities, clusters, districts, multi-cluster territories and regions) could be largely set by the trans-national knowledge infrastructure, the networked intelligent foundation of I-Europe, its smart environments, geopolitical locations with embedded digital communications technologies, innovative broadband territories, knowledge intensive regions, new cities and countries with globally integrated knowledge and intelligences. By and large, the I-Europe general strategy should be targeted at building:

- the common knowledge infrastructure as a union of trans-national knowledge and research networks, as a single ERA;
- innovation networks, as integrated national systems of innovation and joint technology initiatives;
- the global digital intelligence, as "the world wisdom web of knowledge".

PLANS AND PROJECTS of the Intelligent Europe 2010-2015

- Intelligent Energy Grid (integrated smart power grids and green energy sources, with smart meters in every home and business);
- Wisdom/Knowledge Grid Environment (Intelligent Information Ecosystem, Single Semantic Digital Space of Distributed Knowledge and Networked Intelligence, Nationwide Knowledge Service, Intelligent Web Search Engine, knowledge resources and online public services, the broadband Internet, power line and wireless, sensor and actuator nationwide networks, smart municipal broadband, smart government, unified government space, advanced telepresence systems, intelligent information and public services, to every home and business);

- Intelligent Communities (Knowledge Regions, Intelligent City, Intelligent Lifestyle City, Innovative Eco-city, with intelligent urban planning and smart design to each city development)

The Knowledge Society Strategic Programs for I-Europe 2010-2015

- Trans-European and National Programs of Innovative ICT and Knowledge Society
- Trans-European and National Programs of Knowledge and Innovation Territories (communities, villages, towns, cities, districts, regions, and countries)
- Trans-European and National Programs of Science and Research Centers and Innovation Networks
- Trans-European and National Programs of Smart School Learning and Educational Institutions
- Trans-European and National Programs of Knowledge Parks (knowledge clusters, university research parks, science and technology parks, healthcare parks, technopolis, business park, industrial parks)
- Trans-European and National Programs of Smart Government Agencies and State Corporations
- Trans-European and National Programs of Innovative Corporations and Intelligent Business Management
- Trans-European and National Programs of Creative, Productive Lifestyle and Persistent Learning

TRANS-EUROPEAN ACTION PLANS 2010-2015

(Specific, Measurable, Achievable, Relevant and Time-bound **SMART** Projects)

URBAN/REGIONAL KNOWLEDGE GRID ENVIRONMENT:

Municipal Broadband Internet: Smart Wi-Fi Local Area Networks, WLAN; The Energy Efficiency Action Plan installing Automated Smart metering Infrastructure; The Broadband Internet and Support systems for Smart Communities and Cities;

EUROPEAN INTELLIGENT CITIES: Intelligent Community of Creative Lifestyle, Knowledge, Research and Innovation;

TRANS-EUROPEAN WISDOM/KNOWLEDGE/DATA/SEMANTIC GRID AND INTELLIGENT WEB

SERVICES: Intelligent Internet of Things/Semantic Web of Entities, Knowledge Services, Business services, Healthcare services, Government and Public Services;

EUROPEAN EDUCATION, RESEARCH AND INNOVATION SPACE: Unified Education, Research and Innovation Spaces as a Single European Knowledge Area

IEC OFFICE BUILDING

The ICC office is to be constructed as the first intelligent and green building, with intelligent architecture design, the Net controlled smart utilities and facilities, innovative building materials and cutting-edge construction technologies, fixed broadband fiber optics and home automation systems, Wi-Fi network, energy efficient technology as smart electronic metering system and micro energy generation sources.

ORGANIZATION STRUCTURE

The IEC's directorate structure is to include the following key posts and positions.

Director and CEO

CEO TASKS: To define the vision and mission of the IEC. To organize and direct the strategic plans and projects; supervise knowledge, research, development, innovation activities; advance the novel ideas of knowledge society, general intelligence, globally distributed networked intelligence and knowledge technologies by public lecturing, organizing conferences, writing commercial articles, and topical books.

Chief Knowledge and Innovation Officer

CKIO TASKS: innovation networks, the Broadband Internet, fixed and wireless, WWW, traditional and semantic, integrated supra-networks of the research, development, technology, innovation, business, and public sectors of life, fixed and mobile GIS and GPS applications, the internet of things /web of entities, Knowledge Grid Environment

Chief Information Technology Officer

CITO TASKS: To be responsible for the development, design, evaluation, construction, production, operation, and maintenance of the operational programs. Direct the designing, testing, and evaluation of ICT systems, intelligent computer programs and general-purpose reasoning applications.

Train management, staff, strategic partners, and customers in the use of the digital intelligent technology.

Public Affairs Officer

TASKS: Promote to the public the image of the IEC. Further the Center's interests by keeping informed of all government and industry rules, laws, and regulations affecting the progress. Participate in knowledge and intelligent industry associations, conferences, and workshops.

Chief Operating Officer

TASKS: Coordinate R&D, manufacturing, production, distribution, customer service. Manage high quality control of knowledge products and computing software and set work schedule.

Chief Financial Officer

Treasurer and Chief Financial Officer

CFO TASKS: Provide information about the economic states of the Center. Direct all financial affairs including inventory control and cash management. Set up accounting and billing procedures.

Track financial progress and update financial forecasts and budgets.

FINANCING

- ❖ The planned budget is to come from the public sources.

STRATEGIC PROJECTS

- SMART INTELLIGENT SUSTAINABLE CITIES AND KNOWLEDGE REGIONS
- EUROPEAN EDUCATION, RESEARCH AND INNOVATION AREA
- TRANS-EUROPEAN KNOWLEDGE/SEMANTIC GRID ENVIRONMENT
- INTEGRATED GOVERNMENT SPACE: SYNERGY OF THE EUROPEAN POLITICAL INSTITUTIONS AND ADMINISTRATIVE BODIES
- INTEGRATING RESEARCH FRAMEWORK PROGRAMS AND STRUCTURAL FUNDS PROGRAMS FOR ECONOMIC GROWTH, SOCIAL DEVELOPMENT AND INOVATIONAL CHANGE

THE PILLARS OF INTELLIGENT EUROPEAN UNION: INTELLIGENCE, INTEGRATION, AND INNOVATION

The Intelligent Europe 2010-2020 of the Future EU 2020 Strategy is a comprehensive and holistic vision of a smart and creative European Community driven by intelligence, integration and innovation. Such a unique social change of the whole European Continent is challenging and historical. Being in the vanguard of the world economy, European Union is fully able to transform into a knowledge-centered Union with all the intelligent capabilities and innovation resources, into an intelligent society where economic growth is assured by global digital intelligence and knowledge technologies and rich individual and social intelligence. In all, changing the Community into an intelligent land needs to take into consideration three *i*-determinants:

- **Intelligence** (intelligent citizens, knowledgeable communities, the wisdom of population, organization's intellectual capital, collective knowledge, and digital intelligence as global knowledge);
- **Integration** (globalization, globally collaborative innovation networks, computer networking and connectivity, the internet, WWW, integrated supra-networks of the research, development, technology, innovation, business, and public sectors of life, internet-based ubiquitous connectivity, integrated fixed and wireless broadband networks, fixed and mobile GIS and GPS applications, intelligent internet of things /web of entities, the wisdom Web of WORLD knowledge, and global research and innovation space);
- **Innovation** (ICT, global computer network technology, the internet, WWW, multimedia applications, broadband infrastructure, omnipresent computation, digital knowledge resources and services, everywhere and anytime, coordinated research, science and technology, and business parks, intelligent services, intelligent power grid and network infrastructure, smart electricity/gas/water meters, intelligent buildings and homes, streets, villages, towns, cities, areas, and countries).

Knowledge and intelligence generated from investment in the European Research Area of education, research, development and innovation is a key driver for a European Knowledge Society. The future of Europe is a future of globally networked intelligence of personal minds, collective intelligence of communities and distributed digital intelligence of information and communication technologies, embodied as the Future Internet of things, knowledge and content and the World Wisdom Web.