



ΑΔΜΗΕ

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To: Prof. Dr. Dirk Helbing
ETH Zürich
Dept. of Humanities & Social Sciences
Chair of Sociology,
in particular of Modeling & Simulation
Clausiusstrasse 50
8092 Zürich, Switzerland

Dear Prof. Helbing

The Independent Power Transmission Operation of Greece is very pleased to affirm its strong support and interest to the FuturICT FET Flagship Project.

The Independent Power Transmission Operation (IPTO or ADMIE) was established in compliance with Law 4001/2011 and European Union Directive 2009/72/EC regarding the adoption of common rules in the organization of EU electricity markets. According to this Greek Law, ADMIE undertakes the role of Transmission System Operator for the Hellenic Electricity Transmission System and as such performs the duties of System operation, control, maintenance and development, so as to ensure Greece's electricity supply in a safe, efficient and reliable manner.

FuturICT is of main strategic interest to IPTO's core duties & responsibilities that include operation, control, maintenance and development of the Hellenic Electricity Transmission System. This System interfaces with Europe's high voltage electricity transmission interconnectors, with the goal – through ENTSO-E (European Network of Transmission System Operators for Electricity that includes 41 TSOs from 34 countries) – to lead to a pan-European electricity market, a secure integration of renewable resources and a reliable future-oriented grid. The reorganization of the power transmission grids in Europe aiming at a more efficient liberalization of the European electricity market and an optimal grid structure includes the Greek electrical grid that plays a crucial role as a fundamental energy hub, interconnecting Europe to Asia.

This is a project of utmost importance that will generate a vast amount of data exchange related to the controlling of energy generation, consumption and storage. Besides its technological dimensions (e.g. optimal network design), this also involves important economic, social and political dimensions (e.g. sustainable development, marketing, security, usability & user acceptance, participation strategy). We believe that all the dimensions of the aforementioned Energy Market transformation project are closely connected to the characteristic of a Planetary Nervous System, a core characteristic of the FuturICT project.

During the evolution of the FuturICT project, concerning the Living Earth Simulation and in order the future electricity market transformation to be implemented, there will be an urgent need for real-time data mining and processing, as well as building of specialized complex large scale simulation models, based on network constraints subject to market rules, which requires as input complex system theory elements, agent based modeling, risk and business modeling as applied in energy markets.



So the Global Participatory Platform of the FuturICT project will come along in the form of a multi-level information and control platform that informs the different stakeholders about the system's state and gives them user-specific controlling rights. In addition to the above, concepts for the pan-European electrical grid reorganization will provide an early application of the FuturICT project and a playing field for testing new concepts.

As the CEO of IPTO, I am convinced that the FuturICT project can contribute significantly to the improvement and enhancement of our operations, processes and procedures related to the management of the Greek electrical grid, which is a critical and essential infrastructure of our society and encapsulates all technological, economic, societal and environmental dimensions that prevail in the FuturICT project.

I intend to fully support our Company to FuturICT framework throughout the Flagship's lifetime, offering our technical and human potential, coordinated via our Strategic Planning Department, for mutual benefits. In this direction, we intend to offer all necessary support that includes training and technical services available at our premises and our network installations to FuturICT participants.

Kind regards

S.VASSOS
Chief Executive Officer