

International Brokerage Event
Brussels, 26-27/10/2017



Technical University of Sofia

Prof. Dr. Ivan Ivanov

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- ▣ **TUS is the oldest (70 years) and biggest Bulgarian technical higher school with more than 12000 students.**
- ▣ **TUS provides Bach, Master and PhD degrees in the fields of electrical power engineering, thermal- and nuclear power engineering, computer sciences, electronic, transport, etc.**
- ▣ **TUS has national role for the distribution of electrical and power engineering, transport and other knowledge, and for development of the Energy, RES and Industrial Research Areas in Bulgaria.**

The Research and Development Sector (R&D Sector) of TUS organizes, administrates and services of the research activities of TUS.



The Safety and Environmental & Engineering Laboratory (SE&EL) at the Electrical Faculty



is specialized in research and projects' implementation in the fields of:
Environmental Impact Assessment (EIA); GHG emission assessment; Smart Energy Systems and Smart Cities; Safety and Risk Analysis and Studies in the fields of Energy, Transport and Renewable Energy Sources, etc.

The Head of **SE&EL** Prof. Dr. Ivan Ivanov is simultaneously a CEO of **“IVECOL CONSULT” Ltd.** (IVECOL) - a SME registered in Sofia, 1991.



Our research activities and further interest

With our team of Professors, PhDs and high level researchers and experts we have completed over 60 projects in the 5FP, 6FP, 7FP and other EC' Programs and in Bulgaria in the fields of energy and industrial sectors.



Prof. Dr. Ivan Ivanov has speeches and papers in worldwide summits and conferences in different countries in Europe, Nord and South America, Asia and Africa. He is a Senior Expert of APCEO „Asia-Pacific CEO Association Worldwide”, Member of Global Science and Technology Forum (GSTF), etc.



Our priority research interest now is a in the fields of smart energy systems and smart, sustainable and resilient cities' development.

Of course in the all other above indicated fields of our experience and expertise we also have continued interest.



So, depend of the interest of the potential coordinator and for a balance in the consortium concerning the types of the partners, as Bulgarian partner in H2020' or other projects could be involved as university - TU-Sofia / SE&EL or as SME - "IVECOL CONSULT" Ltd.

Default in both cases person in charge will be Prof. Dr. Ivan Ivanov.

- **Objectives:**

- to select of suitable several middle and/or small cities in each of both Turkey, and Bulgaria and other 2-3 European countries, which have already begun or have an interest and potential to develop as smart, sustainable and resilient cities.
- to create of common unified methodology and different typical models of smart, sustainable and resilient city, tailored to relevant energy, communications, market, urban and environmental conditions and development prospects in each of the relevant countries.
- to apply extended SWOT analysis to show the opportunities and benefits to turn the selected cities into smart, sustainable and resilient cities and the prospects for their multiplication in Turkey, Bulgaria and other European countries.

- **Expected results:**

- Roadmap for management, urban planning, financial provision and technical implementation of the developed models of smart, sustainable and resilient city in the relevant countries.
- Using of available different renewable sources in the specific case to build new or convert existing energy capacities, with involvement of energy storage technologies and smart grids, rationally integrated with the central energy systems for electrical supply.

Consortium - profile of known partners *(if any)*



| No | Partner Name | Type | Country | Role in the Project |
|----|---|------|----------|------------------------|
| 01 | Technical University of Sofia (TUS) or | RTD | Bulgaria | Coordinator or Partner |
| 02 | “IVECOL CONSULT” Ltd. | SME | Bulgaria | Coordinator or Partner |
| 03 | | IND | | |
| 04 | | | | |
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| 06 | | | | |
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Consortium - required partners



| No | Expertise | Type | Country | Role in the project |
|----|--|-----------------------|---|--|
| 01 | R&DI experience with efficient solutions for smart cities | RTD | Turkey, Greece, Italy, Spain, France, Croatia and other | Partners.If there is interest is possible eventual coordinator from other country instead Bulgaria |
| 02 | Tech transfer, development and market sustainable and efficient solutions for smart cities | SME | Turkey, Greece, Italy, Spain, France, Croatia and other | Partners.If there is interest is possible eventual coordinator from other country instead Bulgaria |
| 03 | Relevant to the idea of the project or related interest, competences and qualifications, including for discussion and initiating of other projects | R T D , SME IND | Turkey, Greece, Italy, Spain, France, Croatia and other | |

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Recommendations



- The presentation **has to** last up to **4 minutes (maximum)**
- Do not overload your slides
- Provide weblinks to additional material
- Slides should be in English
- Do not use videos etc. – they might be not supported by the Infoday IT system
- Send your presentations in PDF format to: CoF@turkeyinh2020.eu until **23 September 2016.**