



STEINBEIS ADVANCED RISK TECHNOLOGIES



Deutsche Investitions- und Entwicklungsgesellschaft mbH

Leaflet No 3

Education and training for specific needs of industry ...

## *ESPRIT: Enhancing Industrial Safety, Environmental Protection and Risk Management in Serbia by means of dedicated Training, Education and Technology Transfer*

A Private-Public-Partnership (PPP) Project  
Project Number: DEG E7058 (P1125)  
June 1, 2008 – February 28, 2010  
[www.esprit.risk-technologies.com](http://www.esprit.risk-technologies.com)



Successful integration of Serbia and its industry in the European and global economy is often slowed down by the issues related to the lack of reliable and comprehensive assessment of risks related to health, safety and environment in industrial systems. This lack prevents investments and lowers the value of these industries in the international competition, or disturbs the vitally needed regional collaboration between Serbia and its partners in the region.

The problem has been recognized by many, including the Serbian government and large industries, which have both undertaken important measures and set up projects aimed to improving the situation. Although the state-of-the-art methods and tools are generally available, the specially trained and certified "local" professionals needed for the successful application of the risk management approaches, methods and tools, are not available, neither at companies, nor at public bodies or industry. Especially possessing any kind of formal possibly "EU-conform" qualification/certification and this is a serious need for both Serbian economy and its foreign partners.

The ESPRIT project started with the support of DEG mbH is envisaged to fulfill the above gap, primarily by providing the training and education in the area of risk management in Serbia. The main elements of this structure are:

- (a) education and training in Serbian industries (professional education)
- (b) extending the education curricula at Serbian universities
- (c) on-the-job training of Serbian professionals in Germany (industry, academia, R&D)
- (d) certification scheme according to German standards.

This PPP (private-public partnership) project addresses the above problems by involving the most relevant industries (oil & gas, insurance, electric utilities, chemical,...) both in Serbia and in Germany.

The project has duration of 20 months and involves costs of approx. 0.5 million €, out of which about 45% from public support from Germany, would result in training, educating and certification of about 300 professionals in Serbia in the area of risk management, according to the state-of-the-art EU practice.

The levels involved ranges from the, e.g., "certified senior risk assessor - refineries" (professional qualification), up to "Master of Risk Engineering" including PhD ("Bologna").

Steinbeis University Berlin in collaboration with universities in Serbia will assure sustainability of the solution for the time "after the project", as well as the integration of the project results into the area of risk management and safety.

**Project Partners**

**1) Partners carrying out the project**

Training and education:

- Steinbeis Advanced Risk Technologies
- DEKRA Akademie GmbH

Certification:

- Steinbeis University Berlin

**2) Collaborating partners involved in education**

- Universities of Belgrade, Novi Sad and Kragujevac
- Hosting industry for the on-the-job-training

**3) Partners benefiting from the PPP measure and providing "private" support**

Serbian industry:

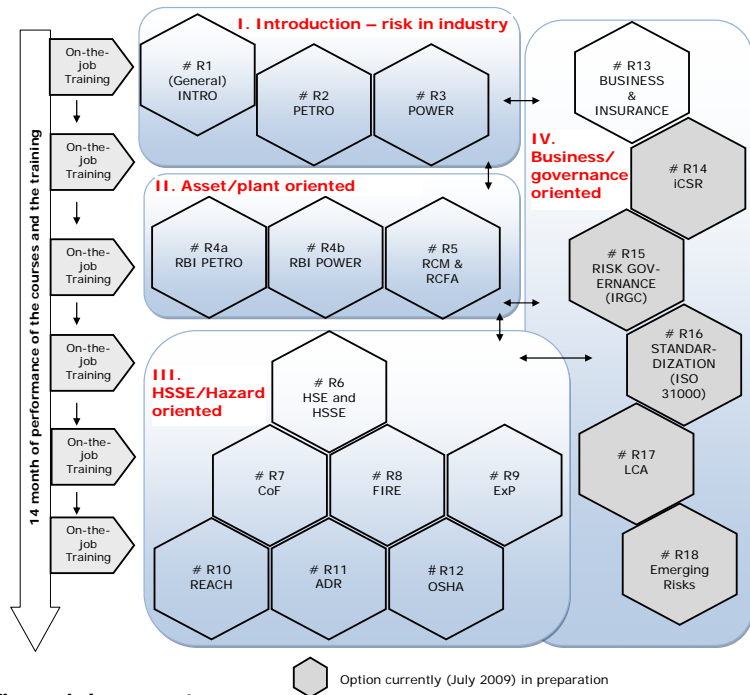
- Oil & Gas & Power
- Insurance companies
- Other industry in Serbia: chemical, steel, food...

German/EU partners:

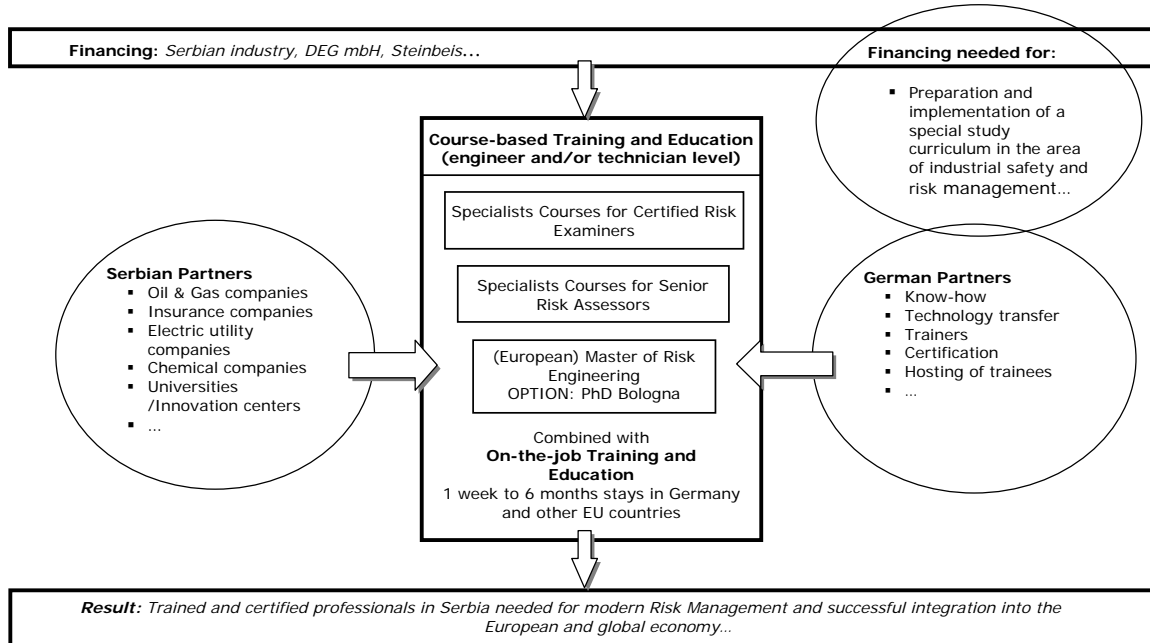
- Process & chemical industry: Refineries
- Insurance companies: Technical insurance and re-insurance companies

**4) "PUBLIC part in the PPP project" direct financial support**

- DEG Deutsche Investitions- und Entwicklungsgesellschaft mbH (member of kfw Group)



**The project basic flow-chart**



**Contents of the training, education and technology transfer**

From the practical point of view the above is usually linked questions like

- Risk management concepts in industry and economy
- EU and other globally relevant legislation
- Modern methods and tools
- Application in Risk Based Inspection (RBI), Reliability Centered Maintenance (RCM), Root Cause Failure Analyses (RCFA)
- Applications for health, safety, security and environment (HSSE) risks
- Explosion protection
- Fire protection
- Application for oil & gas, insurance, power, chemical and other industries concerned

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