

Searching for EU funding

Successes and failures

Jan Johansson

November 8, 2017

My project and my failures

	Period	EU-fund	Coordinator	Total Milj SEK	LTU part Milj SEK	
Evaluation of socio-economic effects of new production system concepts and critical technologies for large aerostructures (AHEAD)	2001-2005	FP5	Fatronic	56	2	Granted
Innovative Technologies and Concepts for the Intelligent Deep Mine of the Future (I2mine)	2011-2015	FP7	LKAB	270	5	Granted
I2mine-2	2015	H2020	LKAB	88	5	Rejected
Promoting the uptake of innovative technologies and best practices to increase energy efficiency in the mining industry (ENERMIN)	2015	H2020	EFG	19	2,7	Rejected
Sustainable Intelligent Mining Systems (SIMS)	2017-2020	H2020	Atlas-Copco	170	5	Granted
Graduate School in Safety and Health in Mining (SafeMine)	2017	KIC	LTU	50	12	Rejected
Safety and risk management platform for RM sector (RAPTOR)	2017	KIC	UL	7,5	1	Rejected
SafeMine 2	2018-2020	KIC	CUT	3	0,7	Granted
RawMaterials SafeMate: Behavioural Based Safety (RMSafeMate)	2018-2019	KIC	UL	3	0,5-1	Granted ?

First project 2001-2005

Spanish consortium

We did not take an active part in the project design

We learned two things:

- Keep delivery times
- Stick to the delivery format

We formed a strategy

Two ways to go:

- Collaborate with colleagues
- Collaborate with industry

Our strategy was to be the partner who took care of health and safety and gender issues

How to find a partner

- We attended a number of networking and brokerage events
- Posters, flyers and pitching

How to get in touch with partners ?

L ULEÅ UNIVERSITY OF TECHNOLOGY
 Division of Technology, Work & Health

The ergonomics package - Added value to your project

A work package dealing with ergonomics will give added value to your EU application. We offer a standard package that of course will be developed and adjusted to meet your needs. The aim of the work package is to study and assess ergonomic aspects of new production system concepts and its implementation in industry. Our studies are often divided into four phases:

Phase 1, named Criteria for work environment factors, contain a specification of criteria for work environment factors based both on modern research and EU- and national legislation.

Phase 2, Evaluation of the technical environment and the production context will mainly respond to the following question: In what environment will the new production system function? For answering it several studies and analysis will be made: job analysis describing the functions, tasks and subtasks under production, standing, idle, adjustment and maintenance; work organization: What kind of skills and abilities are needed for effective operator performance? What will be the impact on working-hours, teamwork, communication, stress, etc?; material analysis: What material will be used? What hazards and problems are related to those materials?; risk analysis: a risk analysis method, Work Safety Analysis, will be used to identify risks at the work place associated with the new technology. The method focuses on both technical and organizational dysfunctions that could lead to accidents, occupational injuries, quality problems and production disturbances. We use modern computer simulation methods such as Transon Jack, ERGOMAS and ERGOplus if ergonomic analysis is needed.

Phase 3, Evaluation of the new production concept, will take charge of the particular hazards and problems present due to the technology used. Aspects such as chemical emission of new materials, radiation and laser safety, noise and vibration, noise and lighting, static and dynamic work-load, temperature and climate will be considered. Measuring and assessment of emissions (at source), (inmission (rooms)) and exposure levels of workers will be accomplished.

Phase 4, different forms of technical and organizational solution will be discussed. The results are continuously adjusted to the other project members in FP7-cooperation. The final results will be presented as a set of guidelines for implementation of the new production system concepts in industry. The guidelines are expected to include: restrictions for work environment hazards, safe working procedures and practices, recommendations for workplace design, recommendations for work organization and recommendations for skill requirements and competence.

If you are interested in further information about the ergonomics package please contact:

 Professor Jan Johansson
 Luleå University of Technology
 Division of Human Work Science
 Email: Jan.Johansson@ltu.se
 Phone: +46 920 491412
 Cell phone: +46 70 5593039
 http://www.ltu.se/istef/49p

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THE GENDER WORK PACKAGE

Do you want to increase excellence in your research and innovation?

A work package dealing with gender perspectives will give added value to your EU project application. Using gender theories and design processes that include both men and women (both as users and as professionals) will help you to create new and better technology as well as technical systems and environments. It will make you more inclusive, socially sustainable, develop new and the learning and inclusive organization for your project.

Sub-studies and sub-projects with specific gender equality perspectives:

- Gender and job as a part of the ergonomic and socio-economical analysis of the project.
- Mapping structural gender inequalities and gender differences in the target area for the new technology or technical system and environment.
- Mapping preferences and consequences for specific groups of target users (especially those neglected, for example women).
- Implementation of gender perspectives in check-lists, decision support, options analysis and consultation models or other project methods.
- Recruiting and working with specific groups of users and designers, engineers and other professionals that usually are underrepresented in these types of technology development projects (for example women engineers).
- Support the development of technology as well as technical systems and environments based on innovations, ideas, experiences, needs and demands from both women and men in the society of today.

Example of activities:
 Monitoring and analyzing the on-going project processes as well as the project results and effects from a gender perspective:

- It can be described as action research in which we participate in, support and evaluate the project and its results.
- It can be attached to the whole project or one or several work packages, applications or industrialisation areas of the project.
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- Usual methods are interviews, surveys and feedback workshops.
- We also recommend sub-studies and workshops where we do the gender analyses together with the other project participants.
- This will be a tool for learning on gender for all participants in the project, but also an support for the project work and project organization.

If you are interested in further information about the gender work package please contact:

 Professor Lena Abrahamson
 Gender & Technology
 Div. of Human Work Science
 Luleå University of Technology
 E-mail: Lena.Abrahamson@ltu.se
 Phone: +46 920 492107
 Cell phone: +46 70 5594107
 http://www.ltu.se/istef/49p

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How to find a partner

- We attended a number of networking and brokerage events
- Posters, flyers and pitching

- Big disappointments
 - Forum for losers
 - Only sellers and consultants
 - No buyers, no companies

We must work directly with the companies

- We had a cooperation with the Swedish and Polish mining industry
- The smart mine of the future, a conceptual study
- Where we took care of Health and Safety, Attractive Workplaces

LKAB, Boliden, KGHM, Sandvik, Atlas, Metso, ABB

Industrial platforms, Raw materials

A call within a year

- We decided to meet in Aachen
- 15 people
- We set the starting points: automation, zero entrance, green mine, invisible mine.
- I represented both LKAB and Boliden.
- I take care of Health and safety

Write the application

- Consultant from an English company, 1 million
- The industry paid
- Application in two steps
- 10 meetings
- LKAB as project coordinator
- SEK 270 mil, WP6 20 mil, 5 mil
- 26 partners from 10 countries

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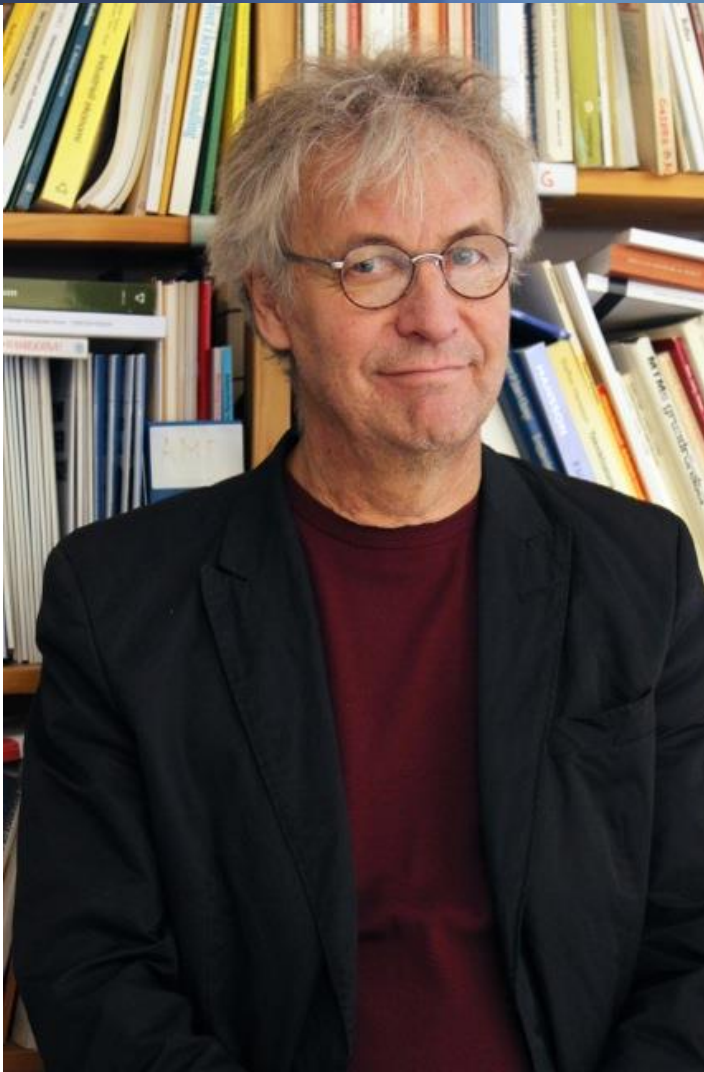
Once you get the money you have great freedom, given you deliver the interim reports on time. Content is not so important, but time-keeping.

PhD School in Safety and Health in Mining

- Four losers who got to know each other
- We decided to start a joint research school
- The problem was to coordinate three different systems for postgraduate education
- We applied for 50 million SEK, for 12 students and 8 joint courses.
- The application received very good grading, but no PhD students could be funded.
- New application for just the course was granted and we will start in spring.

Lessons learned

- Brokerage events are overvalued (posters, flyers and pitching)
- Look for co-operation with those who are different from yourself
- Start as partner (or WP-leader) before becoming a coordinator
- You need friends – events are not enough
- Follow the project officer's instructions - even if they are senseless
- Keep deliveries and delivery times
- Be evaluator if you get the chance



Professor Jan Johansson

Human Work Science

Luleå University of Technology

971 87 Luleå

Sweden.

+46 70 5593039

Jan.Johansson@ltu.se

<https://www.ltu.se/staff/j/jajo-1.11136?l=en>