



**INSTITUTE OF
CHEMICAL TECHNOLOGY
PRAGUE**



www.vscht.cz

**EU
research fund instruments
- experience of the end-user**





Vysoká škola chemicko technologická v Praze

Institute of Chemical Technology, Prague

Founded in 1803 by Emperor Francis II as the Chemistry Department of the Prague Royal Czech Polytechnic Institute

Independent university since 1952

Public university providing education, R&D and application activities in almost all fields of chemistry

Largest university of its kind in Central Europe

Consists of 4 faculties:

- Faculty of Chemical Technology
 - Faculty of Environmental Technology
 - Faculty of Food and Biochemical Technology
 - Faculty of Chemical Engineering
-
- 4100 students / 300 foreign students / 860 PhD students
 - 415 academic staff

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ICT Prague – Notable Alumni



Professor **Vlado Prelog** (1906-1998): Organic chemist awarded the Nobel Prize for Chemistry in 1975

Professor **Otto Wichterle** (1913-1998): Macromolecular chemist who invented soft hydro-gel contact lenses and the polyamide thread Silon

Prof. **Josef Pašek** (b. 1930): Awarded Czech Head 2004 for the development of aniline production technology. Licence sold to Japanese company Tosoh in 2003.

ICT Prague current leading researchers in FP7

Prof. Dr. Ing. Jana Hajšlová, Strengthening European's excellent position in food safety issues, Department of Food Chemistry and Analysis

Doc. Dr. Ing. František Štěpánek, ERC-funded project CHOBOTIX – Chemical robotics, Laboratory of Chemical Robotics (LCR)

Prof. Dr. Ing. Karel Bouzek, Hydrogen-based energy technologies for the future, Department of Inorganic Technology



ICT Prague participation in FP7, FP6 projects

<http://www.vscht.cz/homepage/english/main/research/projects>



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CHOBOTIX, IDEAS, ERC-2007-StG
WELTEMP, FP7-ENERGY-2007-1-RTD , CP
CONFIDENCE, P7-KBBE-2007-1 , CP
PRAMICIDIS, FP7-PEOPLE-2007-2-2ERG
PILGRIM, FP7-HEALTH-2007, CP
CARMUSYS, FP7-PEOPLE-2007-1-1-ITN
MUSECOR, FP7-ENV-2008-1, CP
PERFOOD, FP7-KBBE-2008-2B, CP
MY SCIENCE, FP7-SIS-2008-1, CSA
DoubleNanoMem , FP7-NMP-2008-SMALL2, CP



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FOOD:
 TRACE, BICOP, HEATOX, QUALITYLOWINOUTFOOD,
 TRUEFOOD, BIOTRACER, OTIMILK
NMP:
 CIDNA, NANOMEMPRO, NANOFUN-POLY, IMPULSE,
 TOPCOMBI, APOLLON B, QUORUM,
 BIOPRODUCTION

SUSTDEV:
 MC-WAP, REMOVALS

CRAFT:
 CORRLOG, GFC, MESH

MARIE CURIE Actions:
 QUASAAR, TERESEN, RESNIGHT CZ

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Participation of ICT Prague research teams in FP7 projects

The poster displays a grid of project logos and brief descriptions, including:

- Project: „Water: Knowledge of Essential Parameters...“
- Project: „Fundamentals in Food and Food...“
- Project: „Chemical Processing by Means...“
- Project: „Advanced Water Purification...“
- Project: „Advanced Polymers...“
- Project: „Environmental Risks in the...“
- Project: „Production of Chemical...“
- Project: „Development of...“

At the bottom right of the poster, it says: >> to be continued... and the website www.vscht.cz



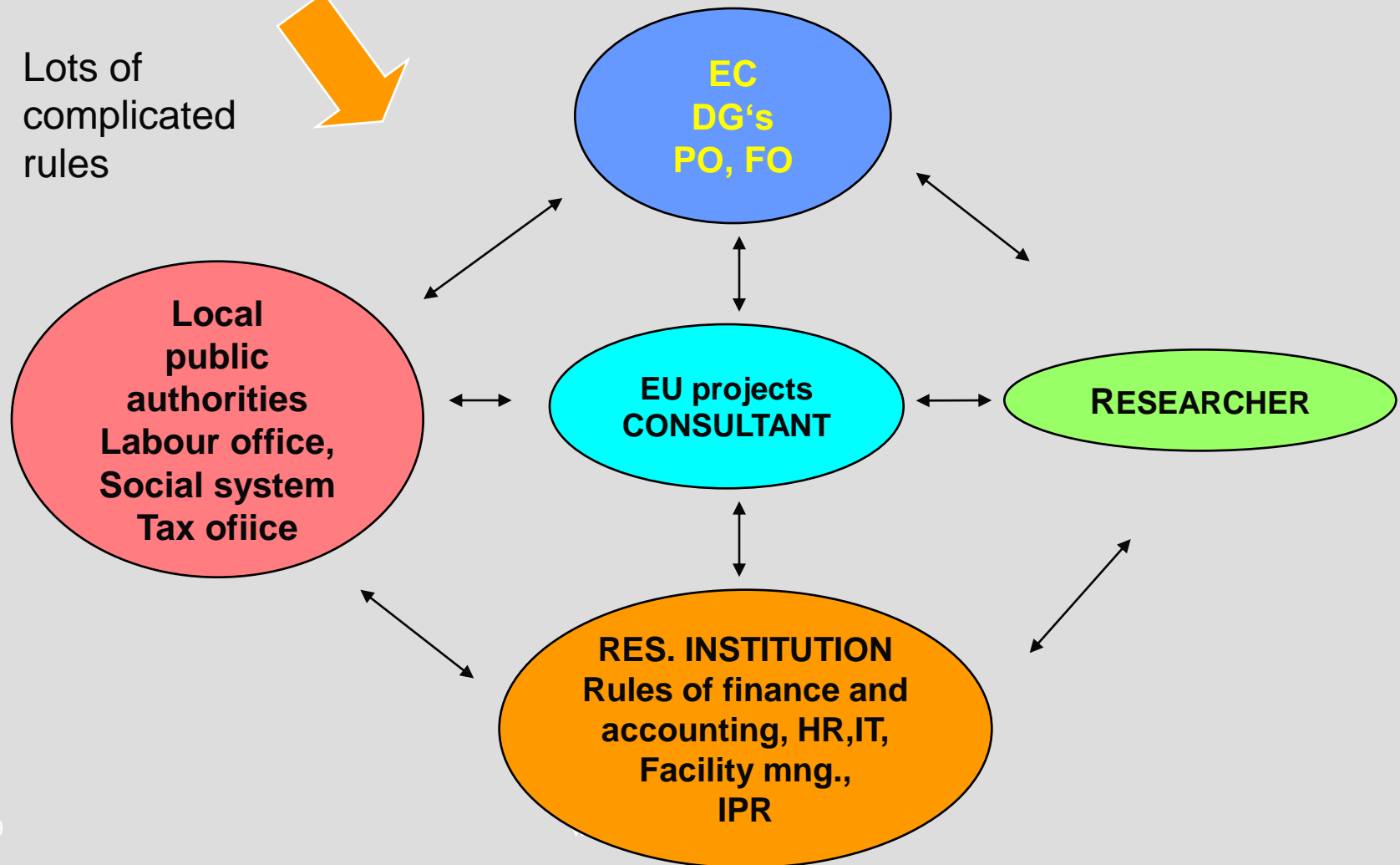


Role and experience of EU projects **CONSULTANT**



EU Court of Auditors

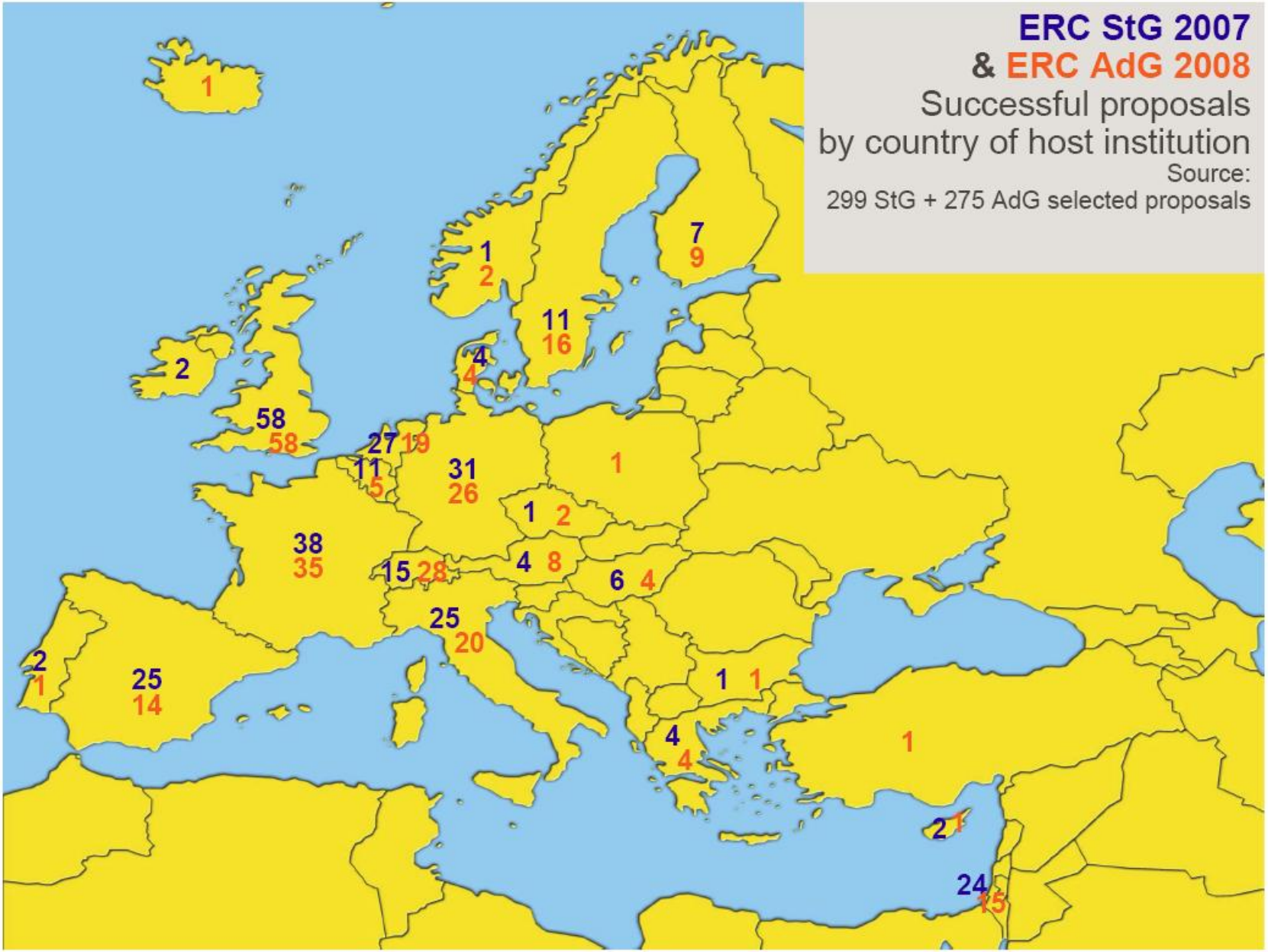
Lots of
complicated
rules



ERC StG 2007 & ERC AdG 2008

Successful proposals
by country of host institution

Source:
299 StG + 275 AdG selected proposals





Europe without barriers



- New MS - public sector needs new approaches
- Change of legal frame of education and RTDI at the national level

Weaknesses

- Strong influence of historical aspects
- Traditional approach - equalitarianism
- Lack of management and smart administration
- Changes go very slowly

Threads

- Shortness of finance
- Slow down of education and research systems reforms
- Weak political governance – difficulties in enforcing reforms

Strengths

- Education system is free of charge
- Czech researchers are able to compete with other researchers
- Research background is very good

Opportunities

- In 2007-2013 huge amount of funds from ESF and ERDF will come into the Czech Republic (except for Prague)
- New opportunities for foreign researchers and stakeholders
- Sustainable position and growth



Support creativity minimise admin. work spend more time doing research



SUPPORT

- smart administration
- new approach to principals of management of science, management of education, reforms of relevant legislation
- collaboration between academia and industry
- eliminate obstacles arising from obsolete and rigid systems that persist in national legislation and internal rules of research institutions

WHERE ?

- state administration – relevant ministries
- management of the universities and academic institutions

The research, the objectives of the project must be more important
than administrative rules

Promote science and education in the media!

I would like to invite young authors to participate in the FP7 project

MY SCIENCE, European Programme for Young Journalists

The project is aimed at building bridges between scientific communities and the wider public.

90 young journalists from all over Europe will be offered a chance to participate in workshops organised in specialised science laboratories.

Find out more at: <http://www.my-science.eu/>

Deadline for submitting applications: 15/07/2009



22/6/2009



Summary

Citation of Dr. František Štěpánek, EU conference - Researchers in Europe without barriers, <http://www.eramobility.cz/program/>

- Geographical barriers not really an issue
- Other barriers prevail
 - in our minds
 - in the research institutions
 - industry-academia collaboration
 - interdisciplinary collaboration
- key role of funding agencies
 - not only providing a choice of funding schemes
 - **but also pushing for more efficient and supportive research institutions**



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<http://www.vscht.cz/homepage/english/main>

Basic information about R&D activities
http://www.vscht.cz/homepage/english/main/research/basic_info

Participation of ICTP research teams in FP7, FP6, FP5 projects
http://www.vscht.cz/homepage/english/main/research/projects/eufp_projects

Thank you !

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