



**EURO**

The Association of European  
Operational Research Societies

THIRTIETH ANNIVERSARY

1975 - 2005

# Operational Research and EURO

What is Operational Research?

What is EURO?

Achievements and Challenges

# What is Operational Research ?

“O.R.”

Operational Research (O.R.) is the discipline of applying advanced analytical methods to help make better decisions.

- Management Science
- Decision Theory
- Decision Analysis
- Decision Support Systems
- Social Choice

# Where do we come from?

- From the French revolution and the industrial revolution ...
- To the Second World War (radars and enigmas) ....
- Through the Information Society ...
- To the challenge of global governance ...

# What is EURO?

<http://www.euro-online.org>

- The Association of Operational Research Societies in Europe (within IFORS).
- Established the 29<sup>th</sup> of January, 1975, in Brussels.
- Representing today more than 10000 OR practitioners and academics all around Europe.

# Thanks to ...

Jean Pierre Brans

Laureano Escudero

Jakob Krarup

Birger Rapp

Bernard Roy

Christoph

Schneeweiss

Maurice Shutler

Jaap Spronk

Rolf Tomlinson

Paolo Toth

Philippe Vincke

Jan Weglarz

Dominique de Werra

Hans Jürgen

Zimmermann

# EURO today is 29 national societies

Austria	Finland	Italy	Spain
Belarus	France	Lithuania	Sweden
Belgium	Germany	Netherlands	Switzerland
Bulgaria	Greece	Norway	Turkey
Czech Republic	Hungary	Poland	United Kingdom
Croatia	Iceland	Portugal	Yugoslavia
Denmark	Ireland	Slovakia	
	Israel	South Africa	

# EURO today is 27 Working Groups

## Examples:

EWG EUROBANKING, Special interest group in banking

EURO Working Group on Ethics

EWG Financial modelling

EWG WATT Working group on automated time tabling

EWG Group decision and negotiation support

EWG EWGLA, Location analysis

EWG HCP, Human Centered Processes

EWG PAREO, Parallel processing in operational research

EWG DEAPM, Data envelopment analysis and  
performance measurement

EWG DDM, Distributed decision making

ORESICUP, EURO Special Interest Group on Cutting and  
Packing



# European Journal of Operational Research

- Established in 1975.
- At that time: 6 issues and 200 pages annually.
- Today: 24 issues and 6000 pages annually.
- 35% acceptance rate
- 4904 cites in 2003 (2nd worldwide)

EJOR Impact Factor



# Theoretical Achievements

- Linear Programming and Extensions
- Combinatorial Optimisation and Graph Theory
- Arrow's Theorem and Social Choice
- Decision under uncertainty and risk
- Heuristics and Complexity Theory
- Bounded Rationality
- Nash equilibrium and Game Theory

# Achievements in Real Life

## Examples:

- Telecommunications
- Transportation and logistics
- Production management
- Energy policy
- Health care management
- Water resources

# Challenges for the future

- Mobility and networks
- Environmental Management
- Governance
- Humanitarian Security
- Molecular Biology
- Algorithmic efficiency
- e-Business and e-Government

# Doing Better .....

The most beautiful sea  
hasn't been crossed yet.  
The most beautiful child:  
hasn't grown up yet.  
Our most beautiful days:  
we haven't seen yet.

And the most beautiful words I wanted to  
tell you  
I haven't said yet...