



E-Voting Readiness Index

3rd International E-Voting Conference, EVOTE08

Lochau/Bregenz
8th of August, 2008

Robert Krimmer
Ronald Schuster

Development of E-Voting



World-wide, transnational, large-scale remote e-voting elections are not there yet:

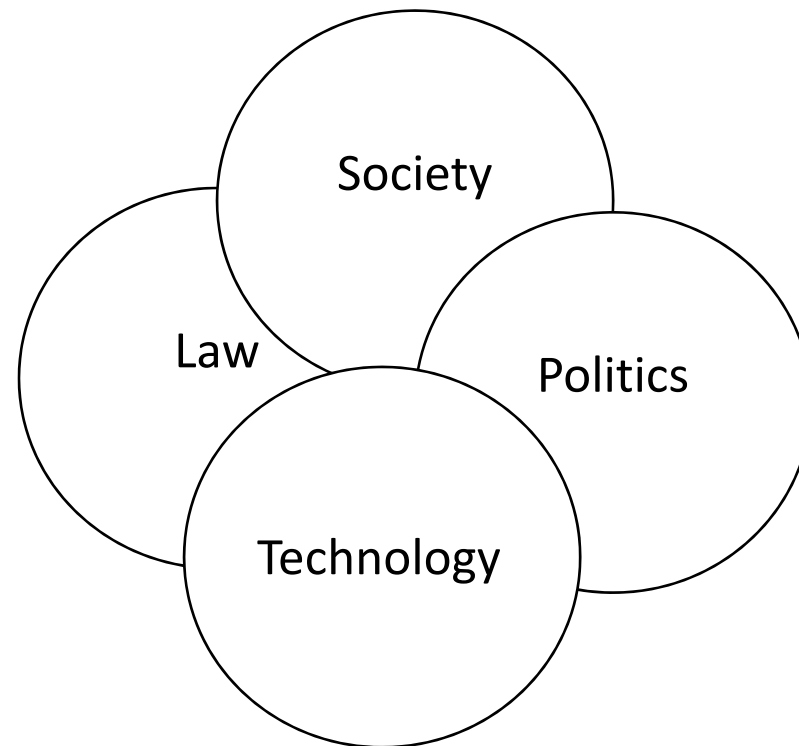
1. Remote e-voting is a topic for incremental introduction
2. Size of elections is rather small
3. Fall back to paper is must for legally binding elections
4. TAN is the choice if „large“ numbers of voters to be reached, smart card is a minority program
5. Organisational secrecy wins over crypto

Mission



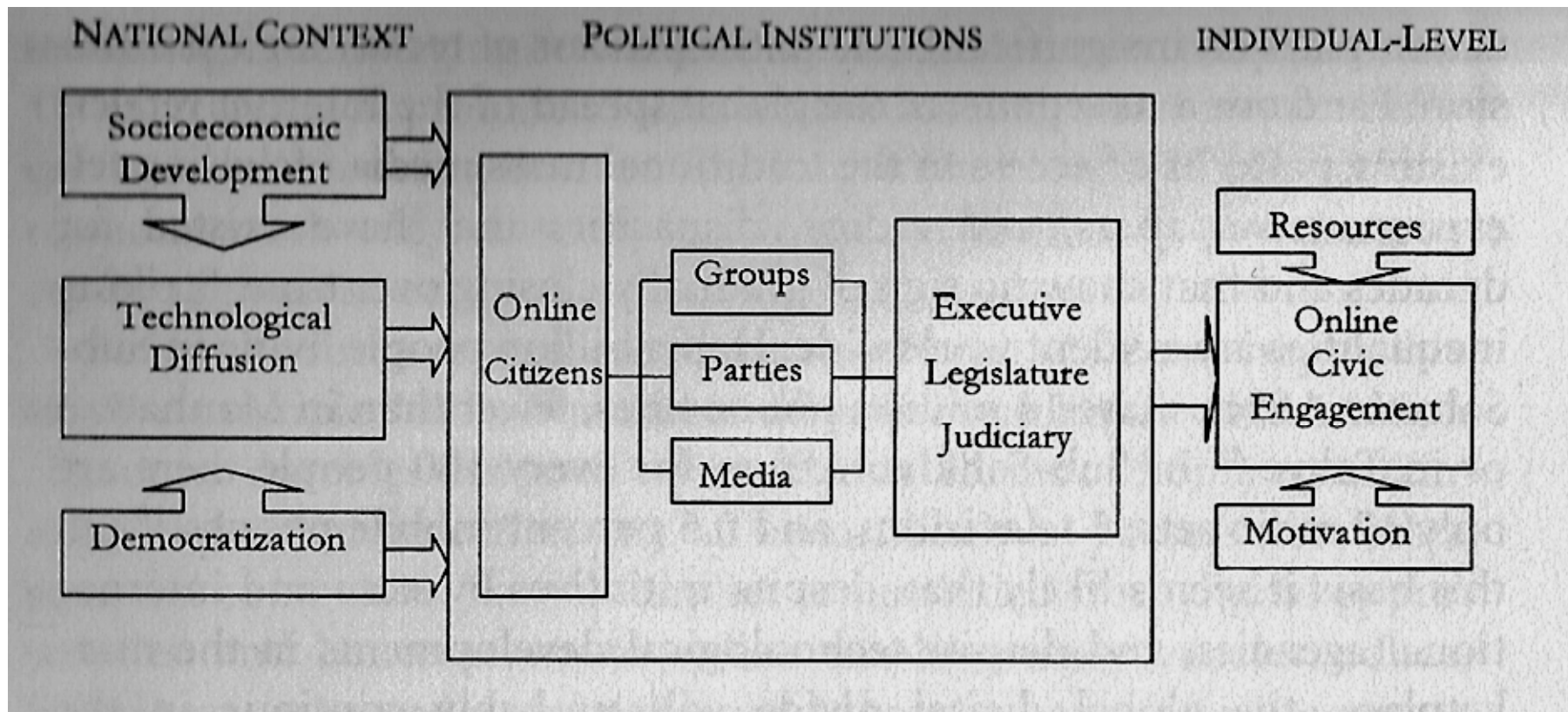
- **Analyse and compare the environment for the introduction of E-Voting.**
- Contextual model was developed and
- Applied with the value benefit analysis to compare
- Evaluation of all EU member states and Russia, Switzerland, the United States, and Venezuela.

Dimensions of E-Voting



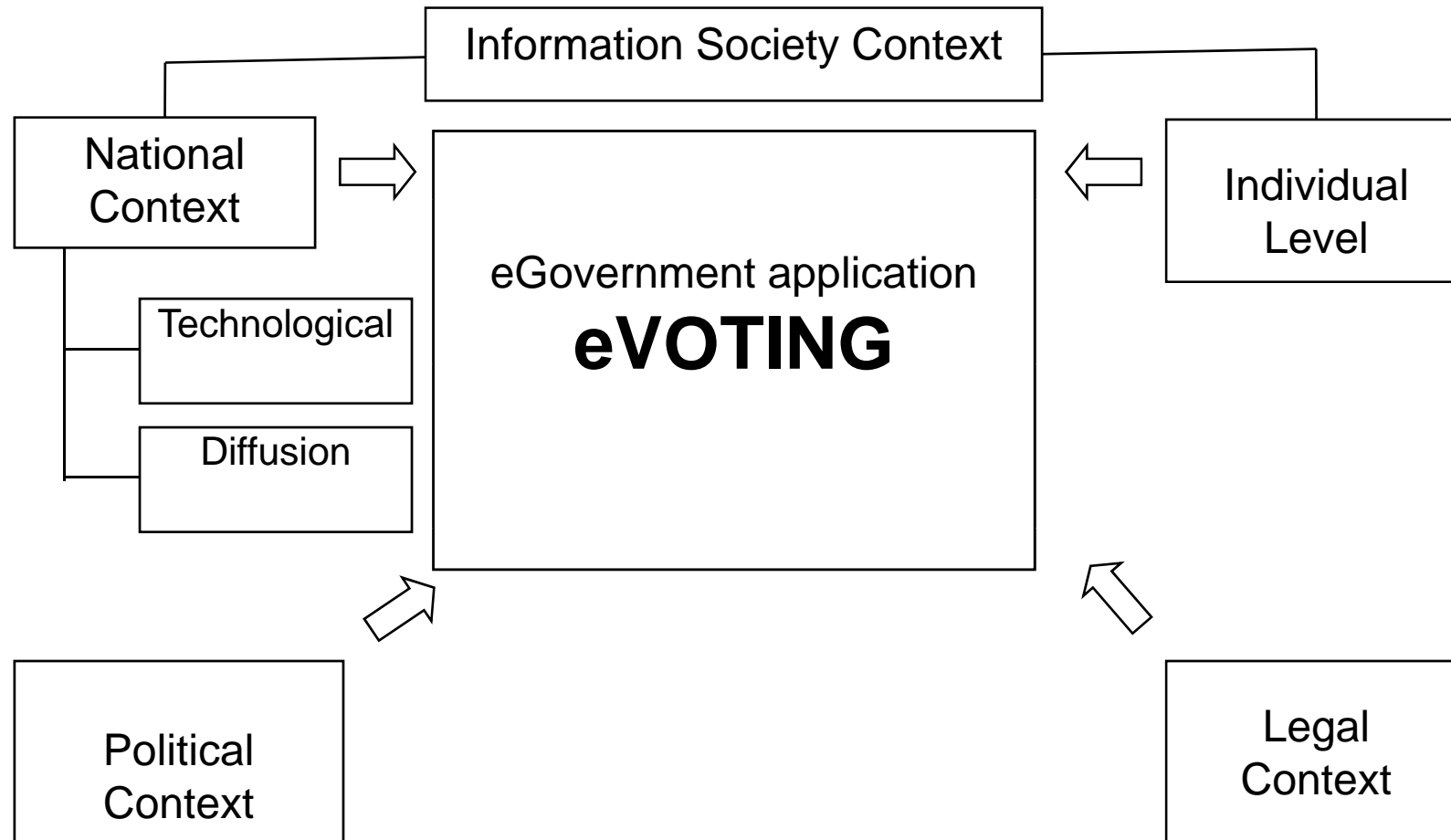
Dimensions of eDemocracy, Robert Krimmer

Digital Divide



Digital Divide, Pippa Norris

ERI Model



The E-Voting Readiness Index Contextual Model, Ronald Schuster

Value Benefit Analysis- Zangemeister



Arranging elements
according to preferences of
the decision maker

- Definition situation relevant goals
- Description alternatives to reach goal
- Preference order to achieve goal

Value Benefit Analysis – Stahlknecht / Hasenkamp

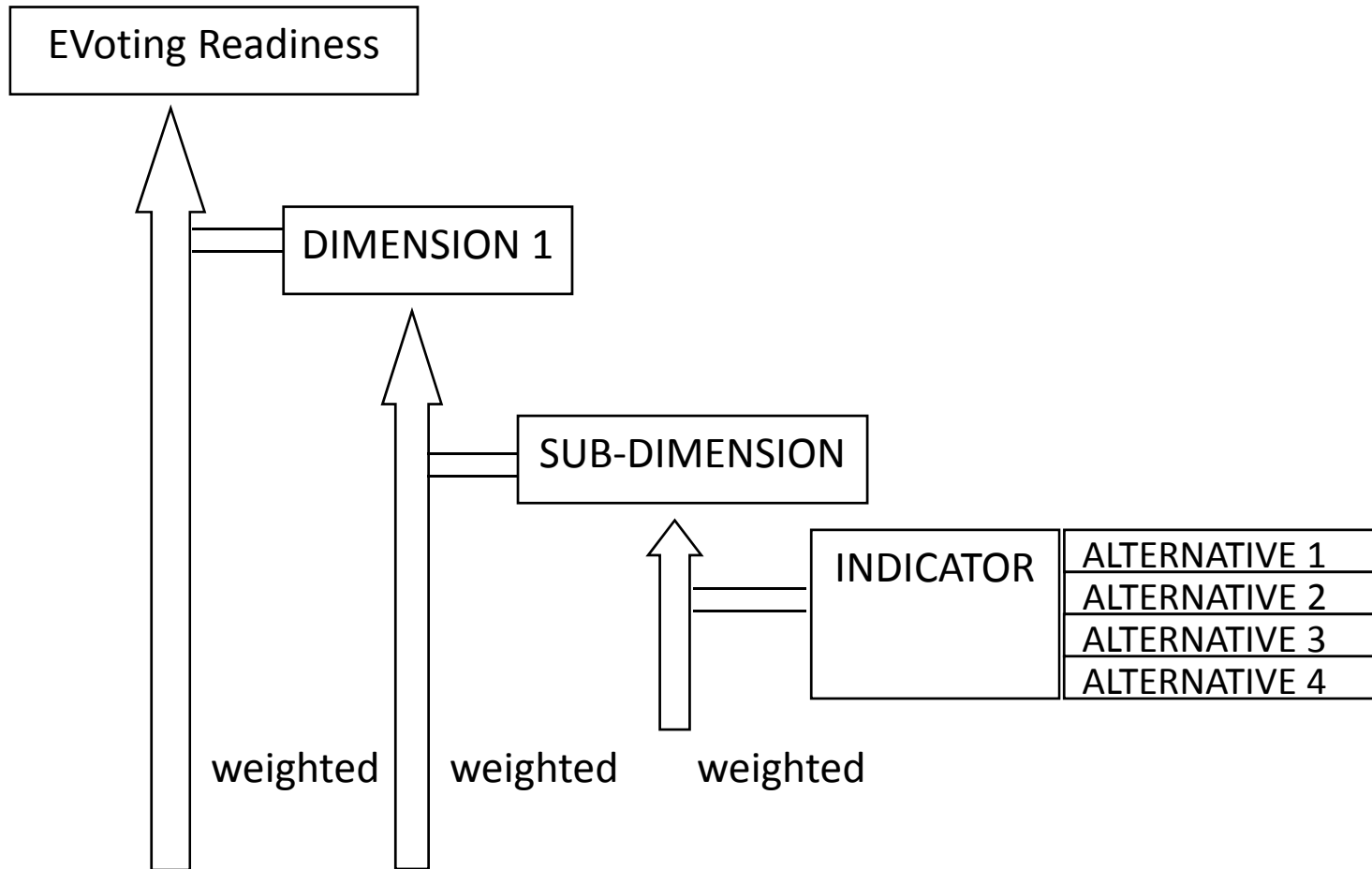


Used for assessing tenders
in IT- Sector

- List and weighting of criteria
- Confrontation of the units of analysis
- Evaluation and scoring of the units of analysis

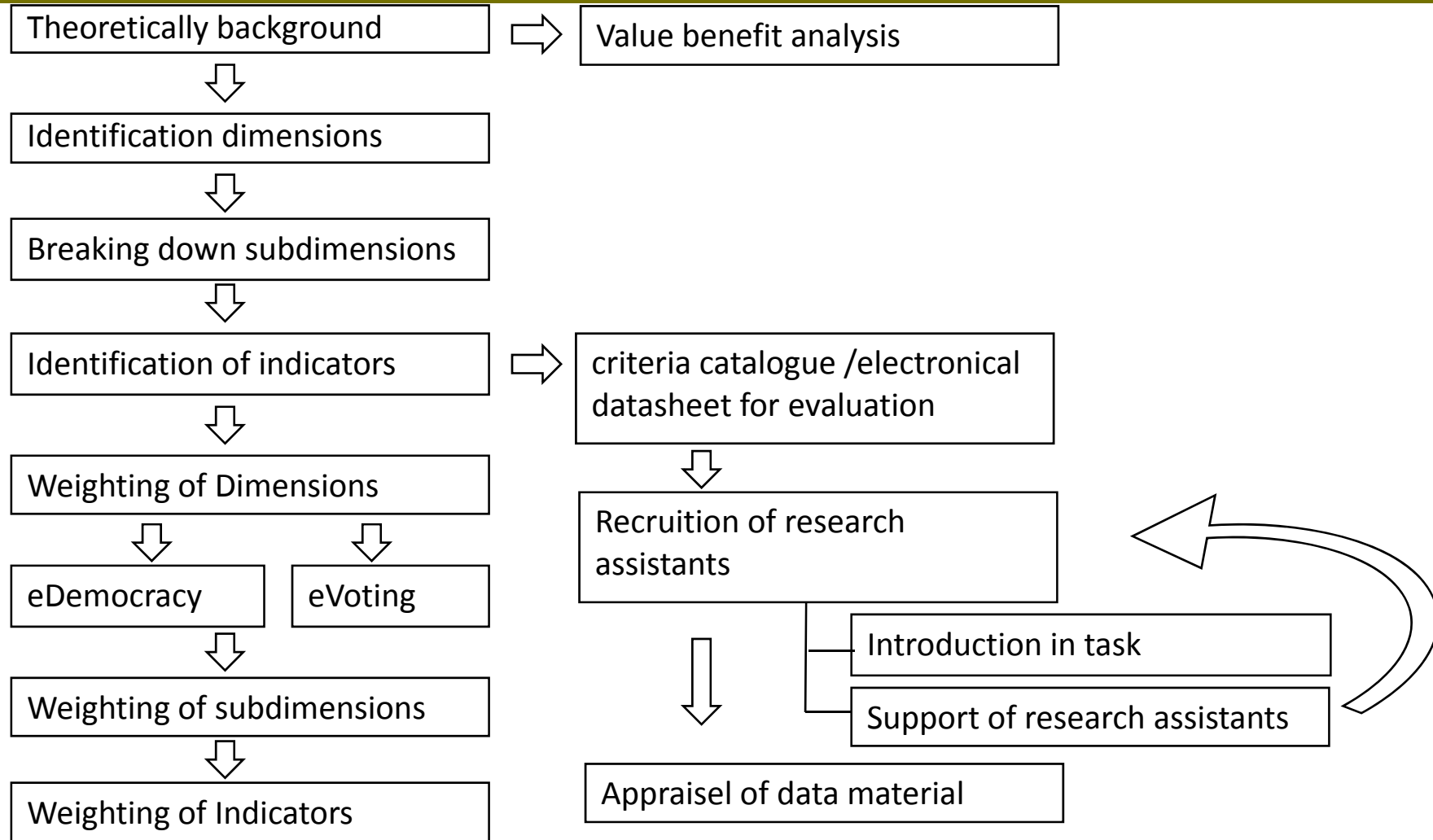
Criterion	Weight	Offer	
		A	B
X	30 %	Points	Points
Y	40 %	Points	Points
Z	30 %	Points	Points
Value benefit		Value	Value

Value Benefit Analysis- ERI

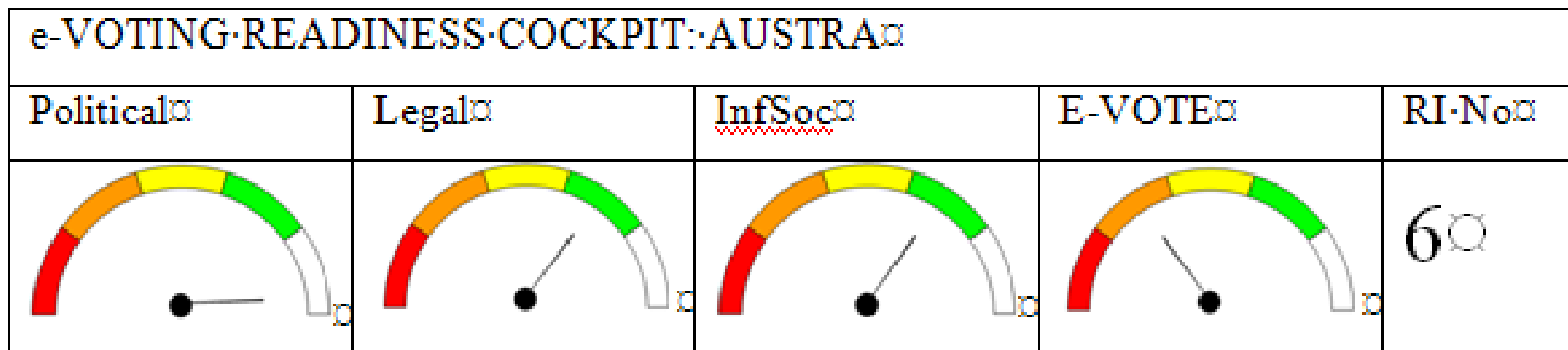


ERI evaluation procedure, own representation

Process



E-Voting Readiness Cockpit



Political Context - Subdimensions



- Stateness
- Constitutional state
- Institutional stability
- Election system and election turnout
- Political participation
- Political Aims

Legal Context – Subdimensions



- Election system
- Supplementary protocol for human rights
- Realization Council of Europe recommendation

InfoSoc Context - Subdimensions



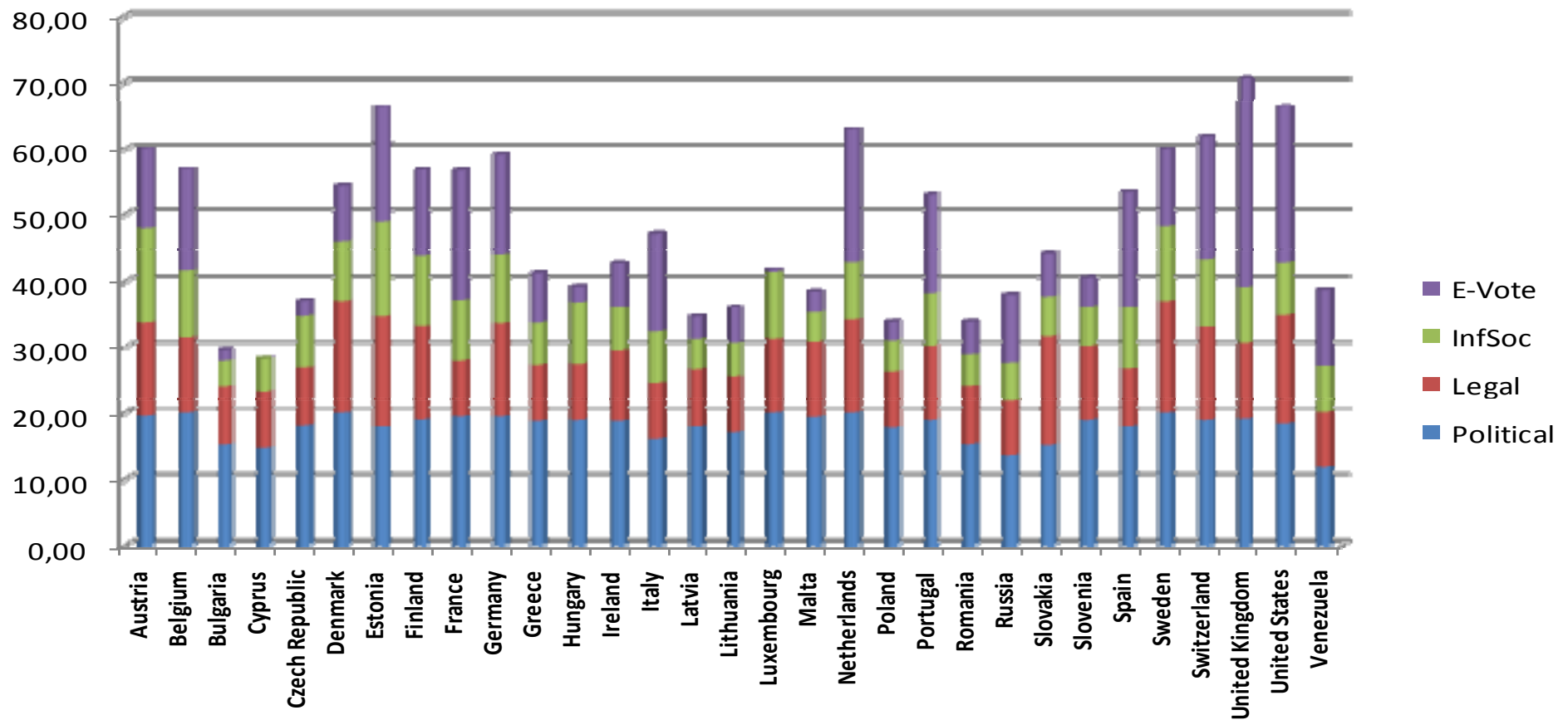
- Status of listings
- Status of eGov infrastructure
- Prices for entrance to ICT services
- Expenditures for ICT
- Transaction penetration
- Degree: informatization of public admin
- Diffusion ICT services

eVote Context – Subdimensions

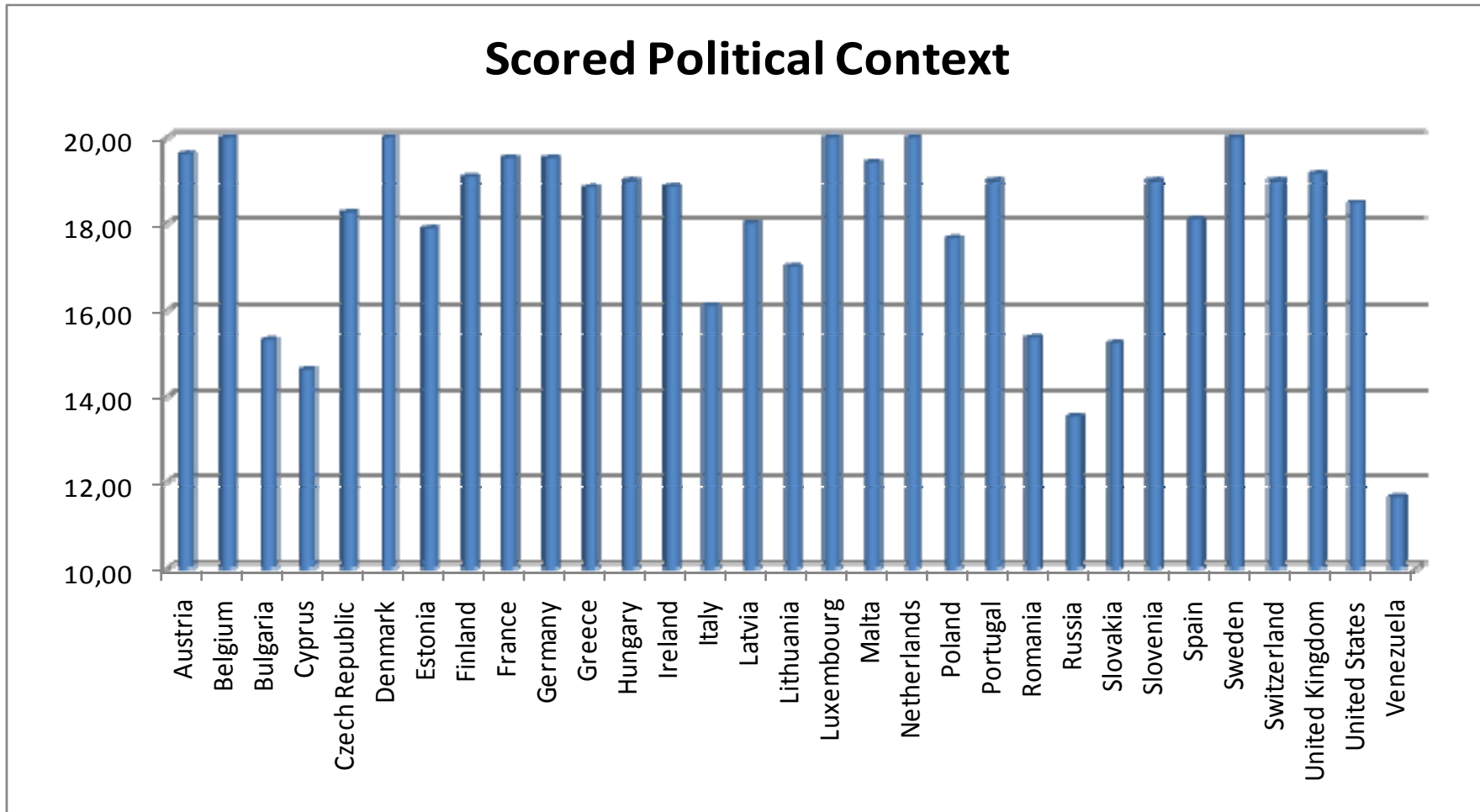


- Political Debate
- Private elections
- Public elections

ERI - Scored Dimensions



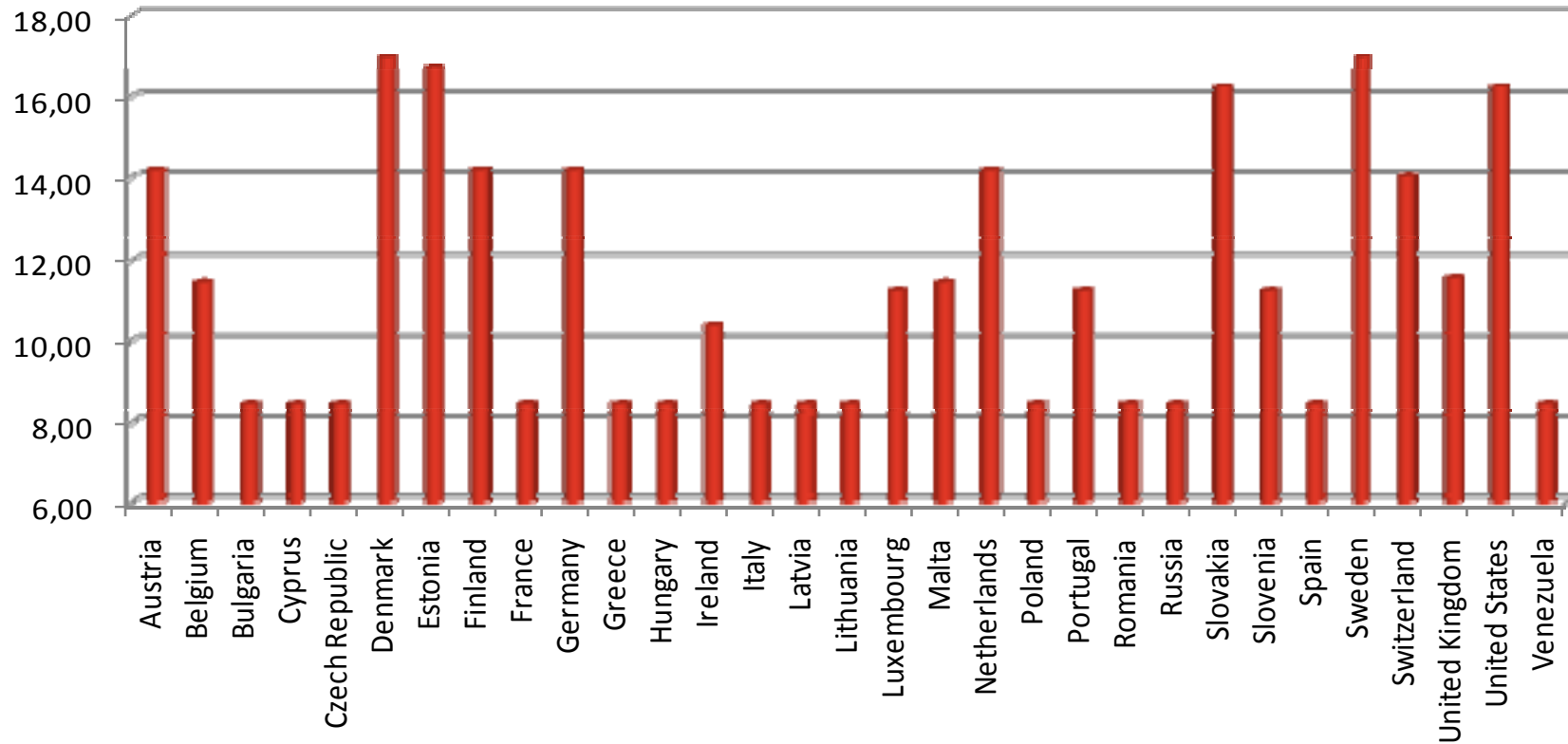
Political Context



Legal Context



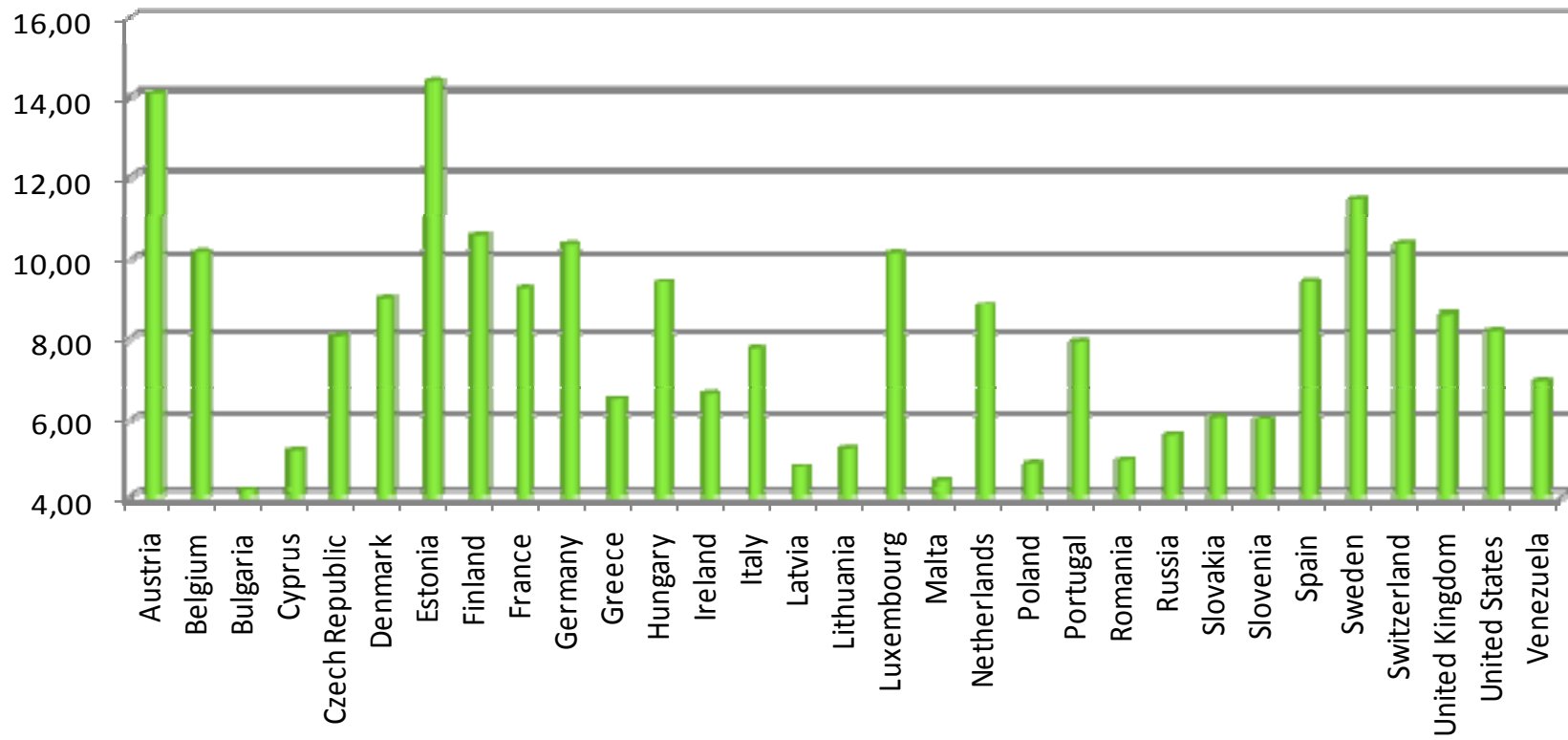
Scored Legal Context



InfoSoc Context



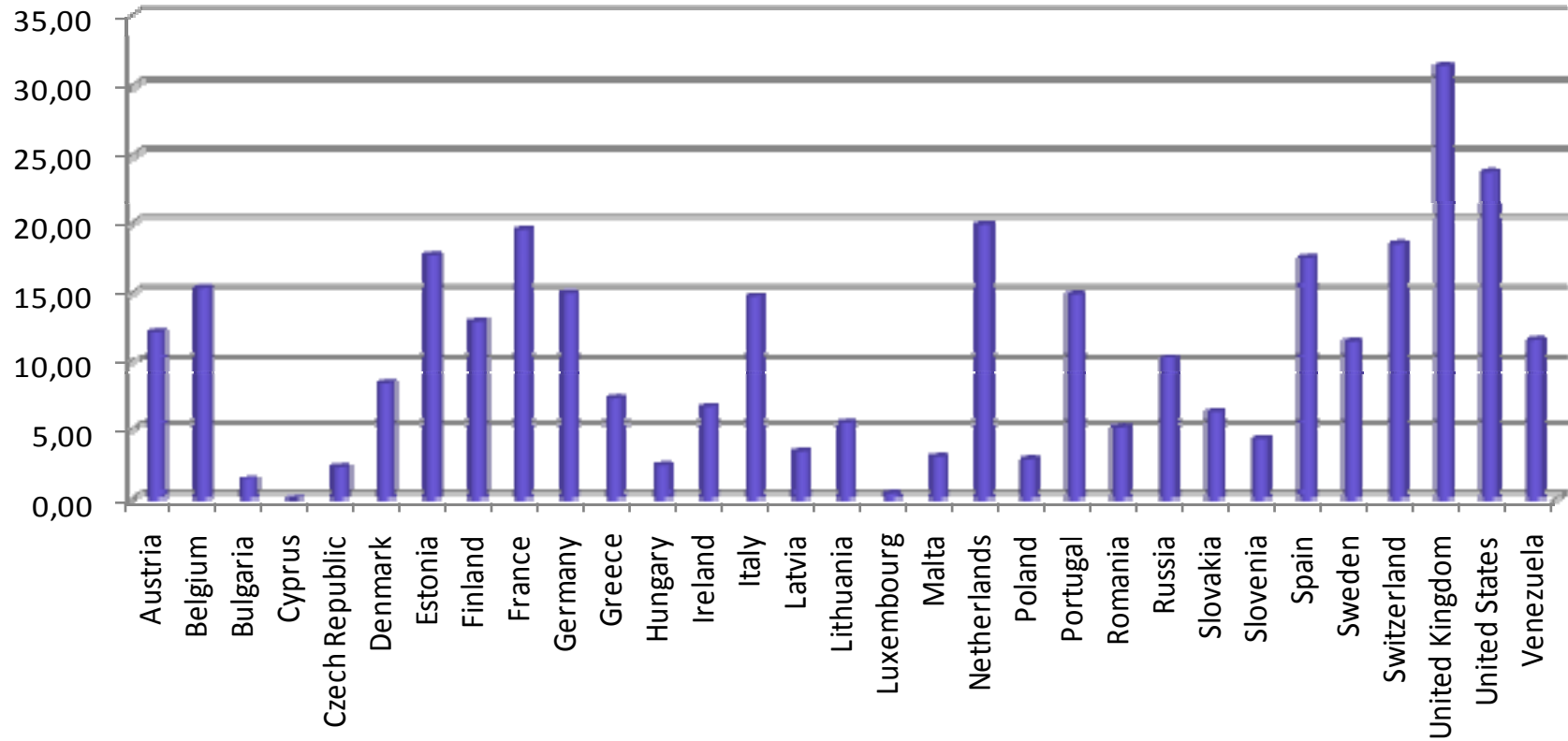
Scored InfoSoc Context



E-Voting Context



Scored E-Vote Context



Results



- Developed a Conceptual Model for E-Voting (could also be used for other e-democracy applications)
- First overview on contextual factors
- Vast amount of data
- Analysis of relation between contextual factors as well as in regard to actual implementation of e-voting Benchmark (?)

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