



Task Force on Exchange and Sharing of Economic Data

# Principles and practices of data exchange

**Daniel SURANYI**  
**Eurostat**

# Innovative Data Exchange Practices



# Innovative Data Exchange Practices

Early Warning System

FDI Network

Secure multi-party  
computation

Extractive Industries  
Transparency Initiative

European  
Groups  
Register

GNI Pilot



MNE data for  
tax authorities

Data Gaps  
Initiative

# Innovative Data Exchange Practices

**Traditional:  
statistical**

**Traditional:  
non-statistical**

**Paradigm shift**



# Innovative Data Exchange Practices

*Principles*

*Aspects / criteria*

*Technical approaches*

*Decision matrix*



# Innovative Data Exchange Practices

## ***Principles***

*Aspects / criteria*

*Technical approaches*

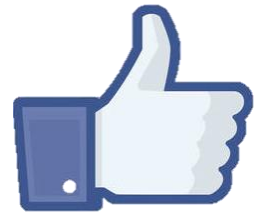
*Decision matrix*



# Principles

## *Relevance*

- **What if we had all the data needed at hand?**
- **Clear business case**



## *Statistical confidentiality*

- **Statistical purposes only**
- **Need to know**
- **Data protection**



## *Adequacy of resources*

- **No additional burden on respondents**
- **Existing mandate: data collection and access**



# Innovative Data Exchange Practices

*Principles*

***Aspects / criteria***

*Technical approaches*

*Decision matrix*





# Aspects / Criteria

*Purpose of data exchange*

*Type of data*

- **sensitivity, volume, granularity**

*Regularity of exchange*

*Legal considerations*

# Innovative Data Exchange Practices

*Principles*

*Aspects / criteria*

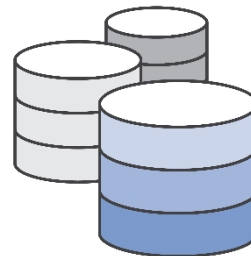
***Technical approaches***

*Decision matrix*



# Technical approaches

*Shared data*



*Shared algorithms*



*Shared services*



*Shared computation*

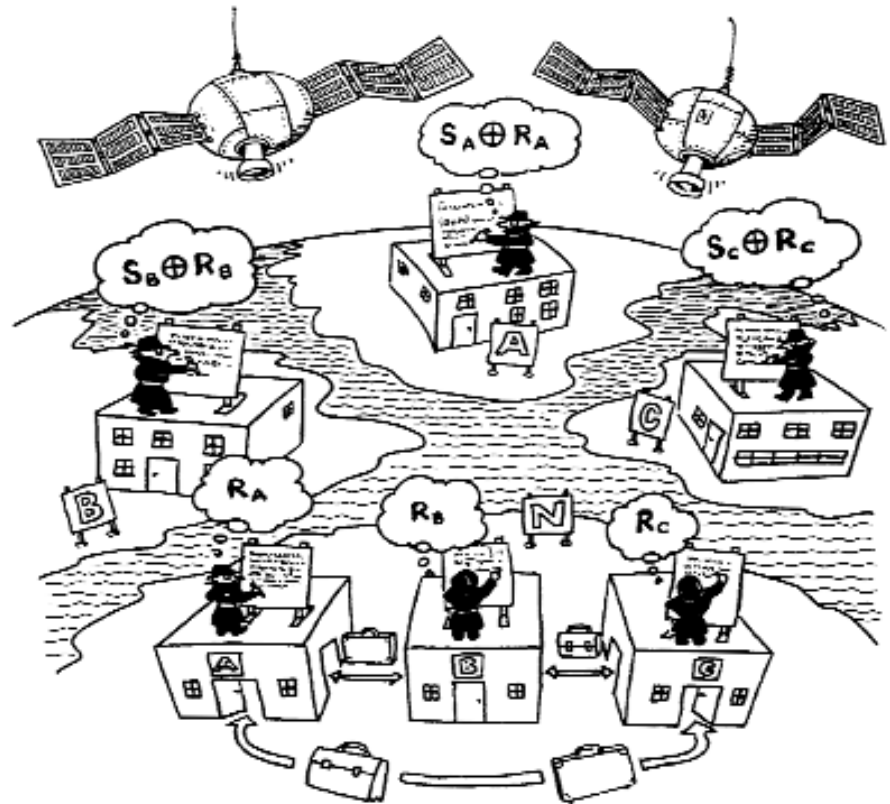
# Technical approaches

*Shared data*

*Shared algorithms*

*Shared services*

*Shared computation*



# Innovative Data Exchange Practices

*Principles*

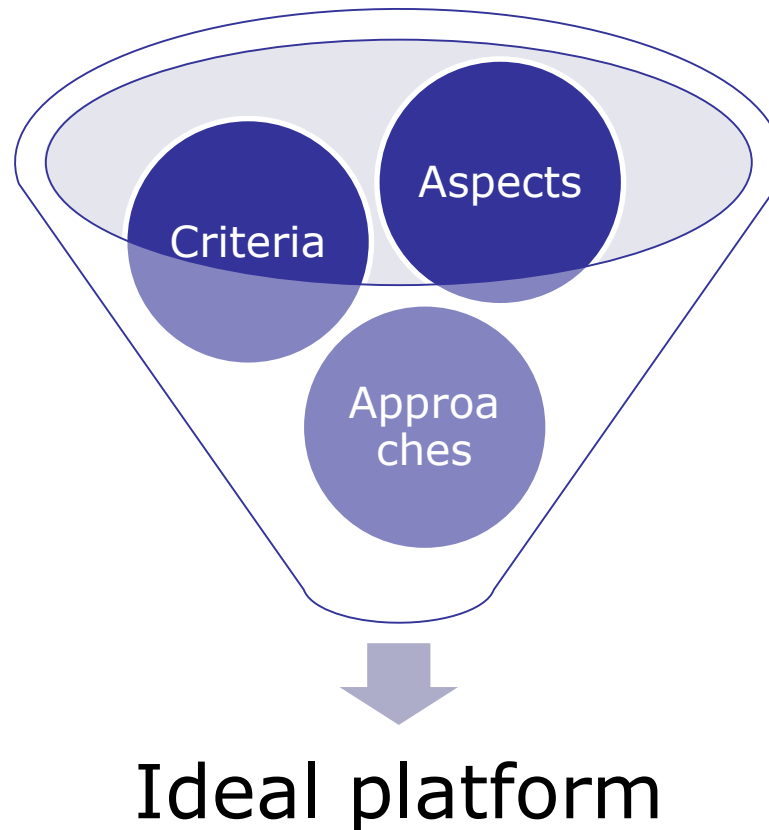
*Aspects / criteria*

*Technical approaches*

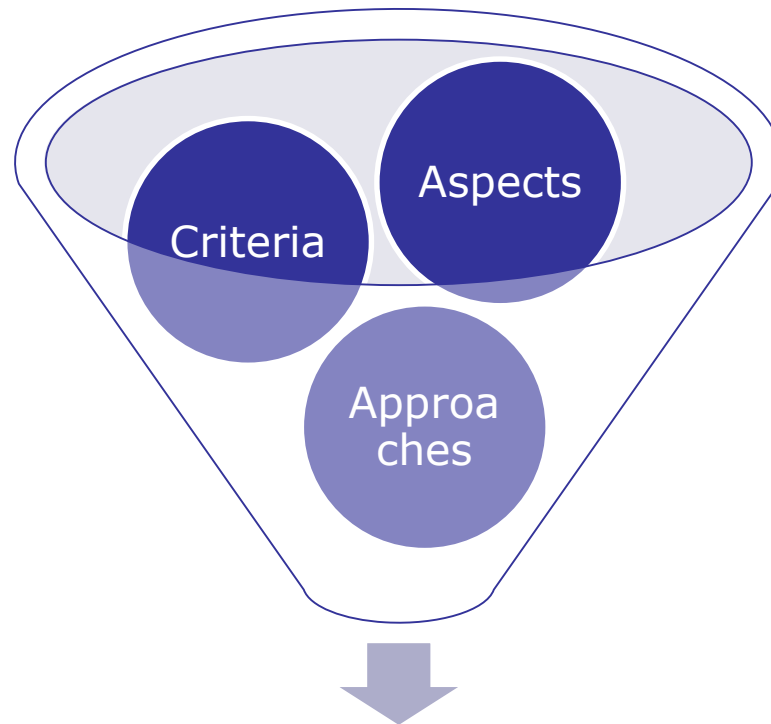
***Decision matrix***



# Decision matrix - objective



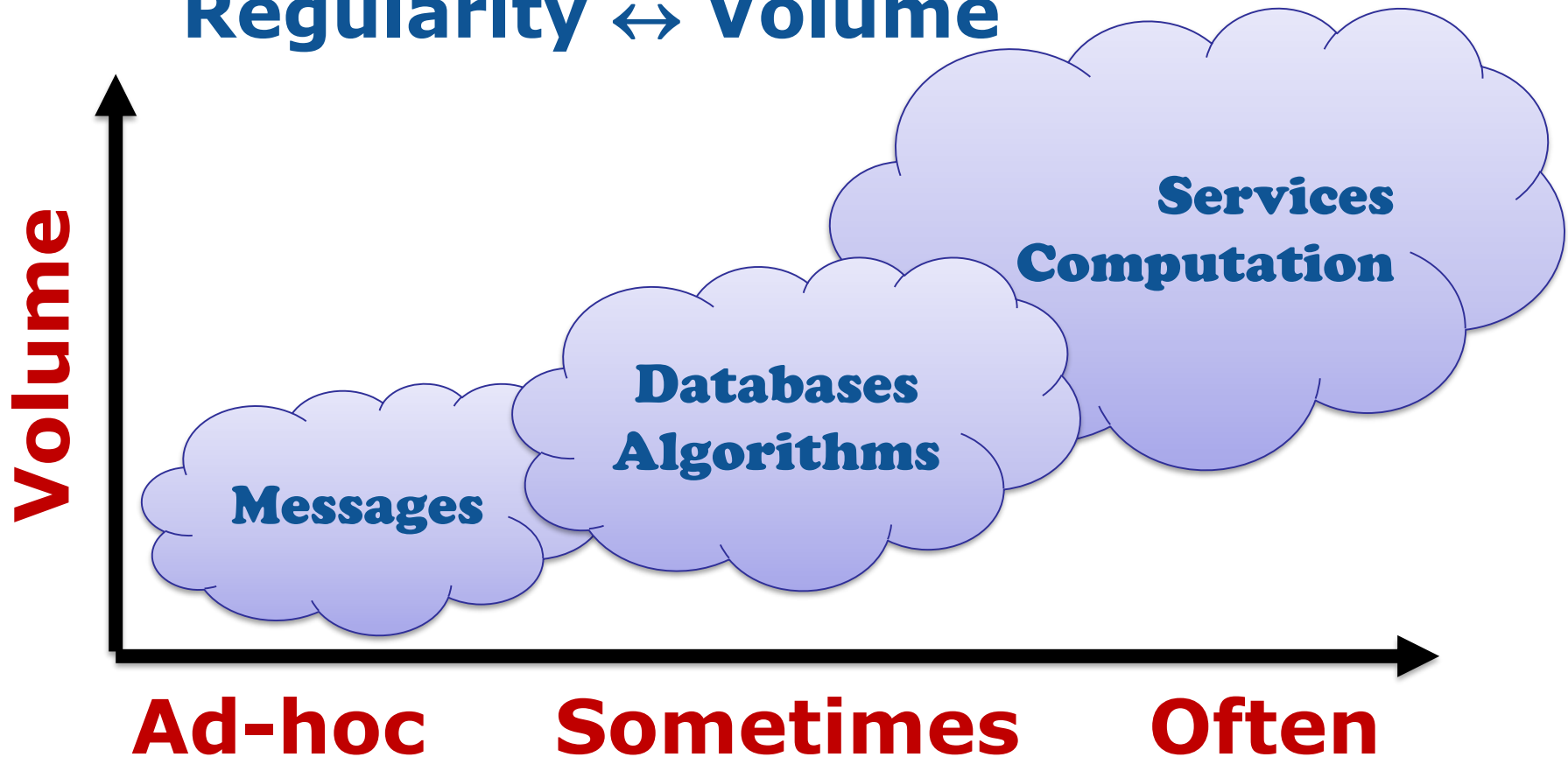
# Decision matrix - dimensions



**Regularity ↔ Volume**

# Decision matrix

## Regularity $\leftrightarrow$ Volume





# Examples

**Messages**

*Email*

*Transmission systems  
(EDAMIS)*

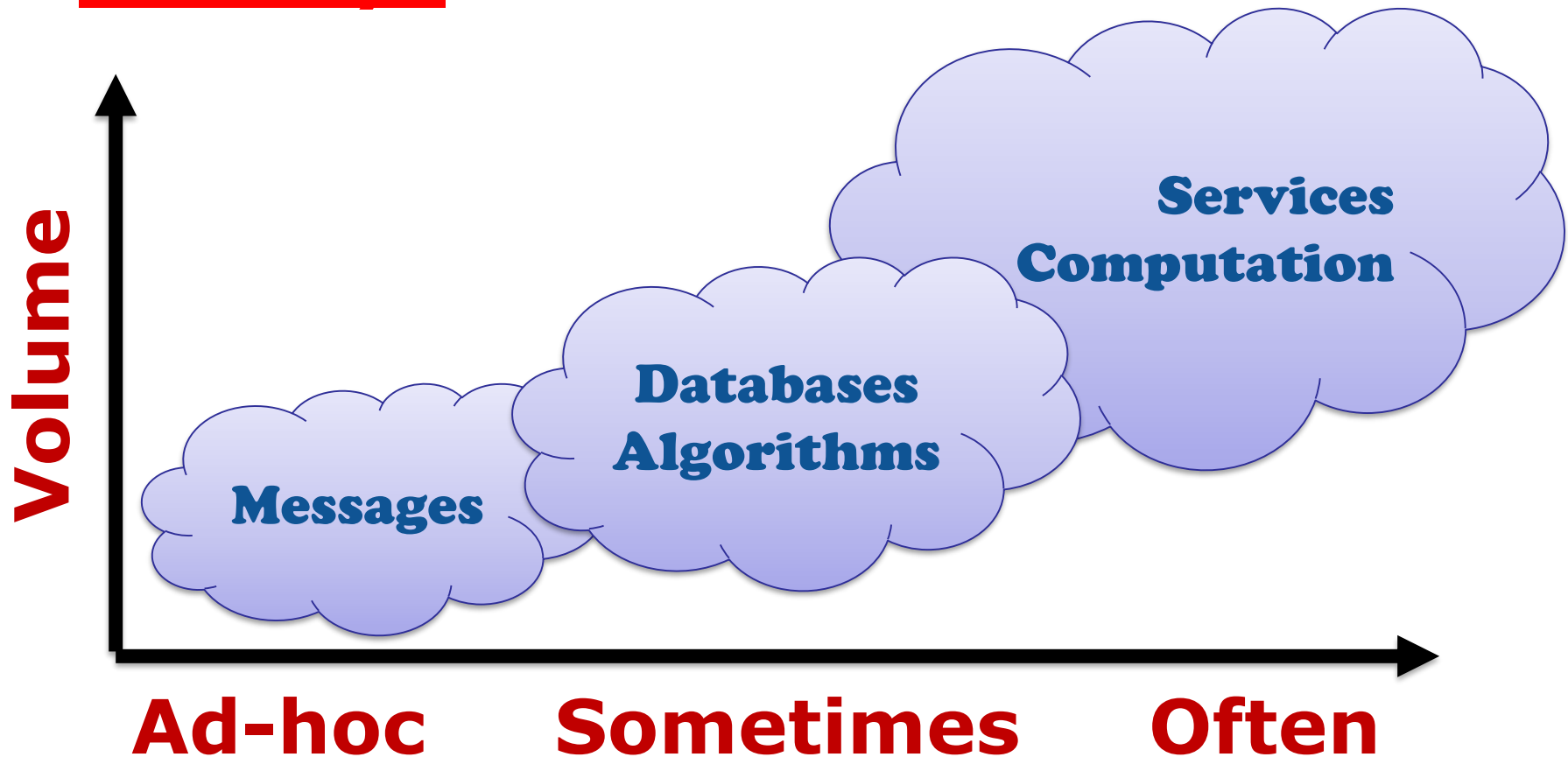
**Databases**

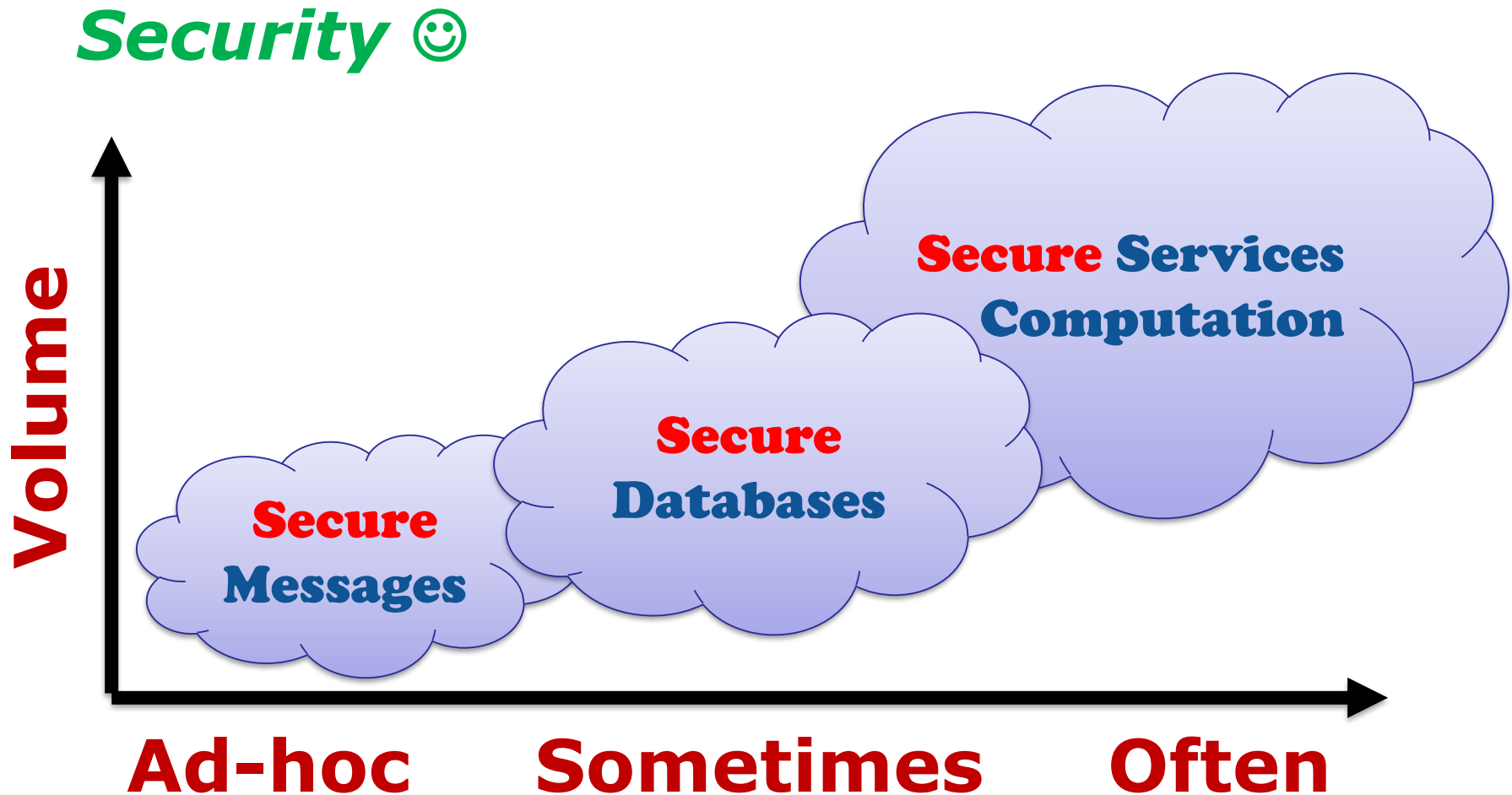
*SDMX Web Services*

**Services  
Computation**

*ESS Validation services  
UN Global Platform pilot*

## **Security?**





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# *Technical Conclusion*

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**LET'S DO THIS**