



# **Crime Investigation with KNIME - Cardsharing at Pay TV**

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# Agenda

- The business today
- Challenges on data analytics within German governments
- Needs for data analytics
- Real world example

# The business today

- Federal system does not support “one solution”
- States design their own standards
- Interoperation is very difficult
- Checks and balances between investigation and justice



# Challenges on data analytics within German governments

- Amount of data
  - Data explosion in every case
  - Data formats and types
- Complexity
  - No case is like the last one
  - Frequency of cases
- Costs
  - Forensic tools are cost intensive
  - Not useful for every use case

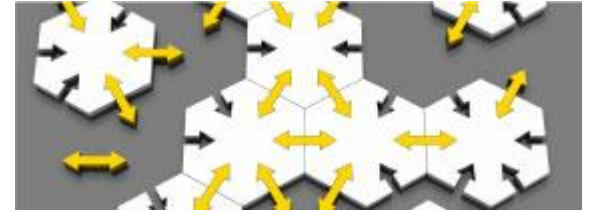
# Bosten Marathon bombings

- Free text messages > 10.000
  - Internet
  - Interviews
  - Witness reports
- Pictures > 30.000
  - Smartphones
  - Security cams
  - Photographer
- Videos > 1.000 hours
  - Televisions
  - Video surveillance systems
  - Smartphones

# Needs for data analytics

- Knowledge of data analytics
  - Different data sources
    - Provider, HDD, Storages, ...
  - Different data types
    - Mail, pictures, video, audio, communication, ...
  - Different data formats
    - “where are the standards, when we need them ...” 😊
- Evidence
  - From forensics to prosecution
  - No technical skills on court level
- Flexibility
  - Interoperation
    - Departments
    - Federal countries

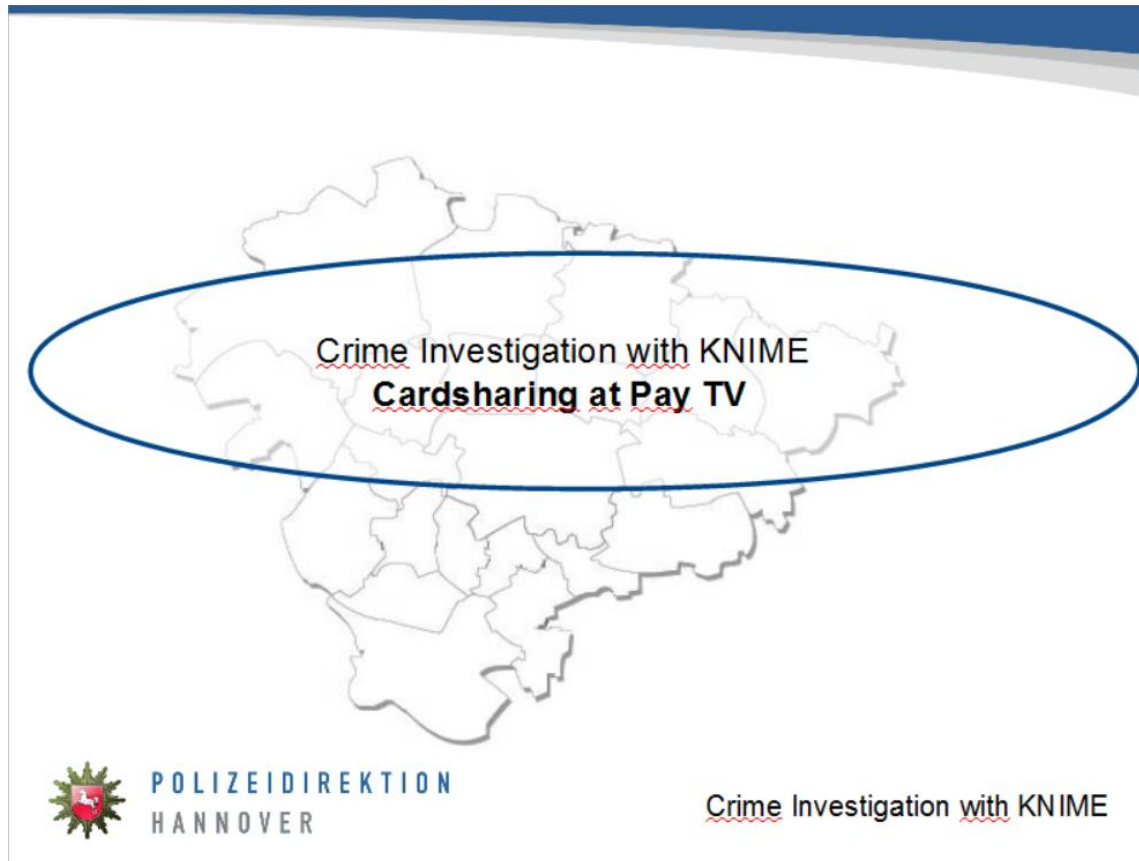
# KNIME advantages




“Quick to deploy, easy to scale, intuitive to use and open to all.”

# Hand over to ...

... the real word example



Crime Investigation with KNIME  
Cardsharing at Pay TV

 POLIZEIDIREKTION  
HANNOVER

Crime Investigation with KNIME





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