2nd EU Conference on Metal Theft
23./24. April 2014

„Metal Theft at Deutsche Bahn AG“

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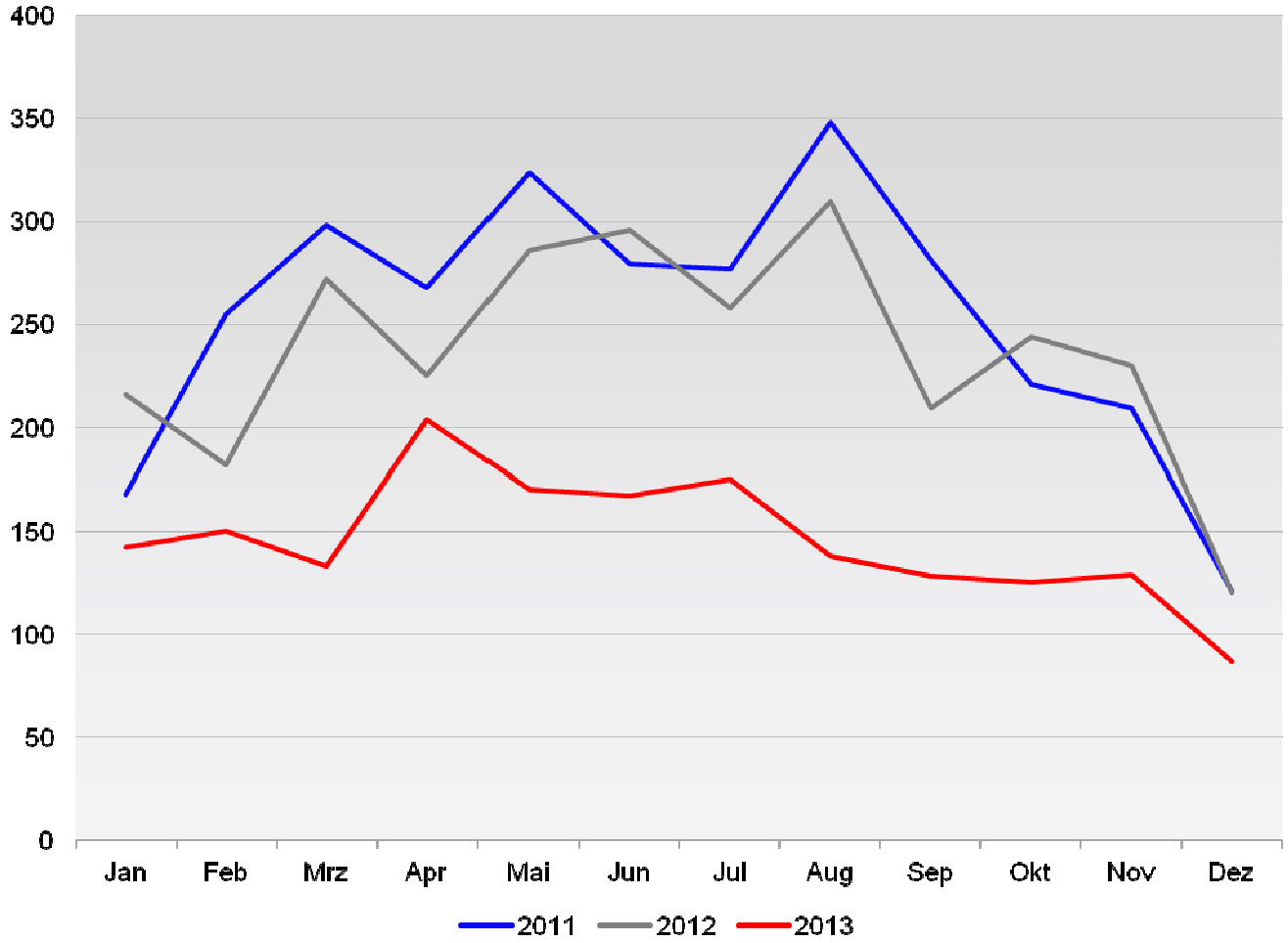
Head of DB Situation Center and

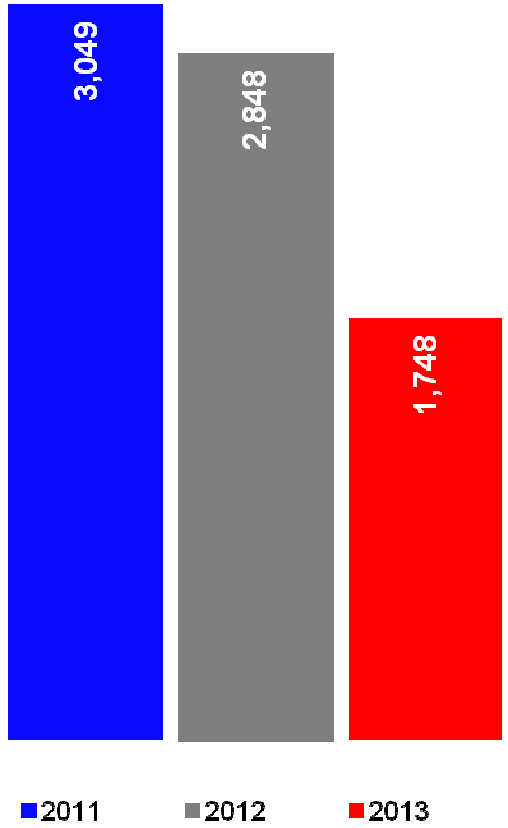
Global Crisis Management

Content

Metal Theft
Situation at Deutsche Bahn (Quelle: Internal Database)

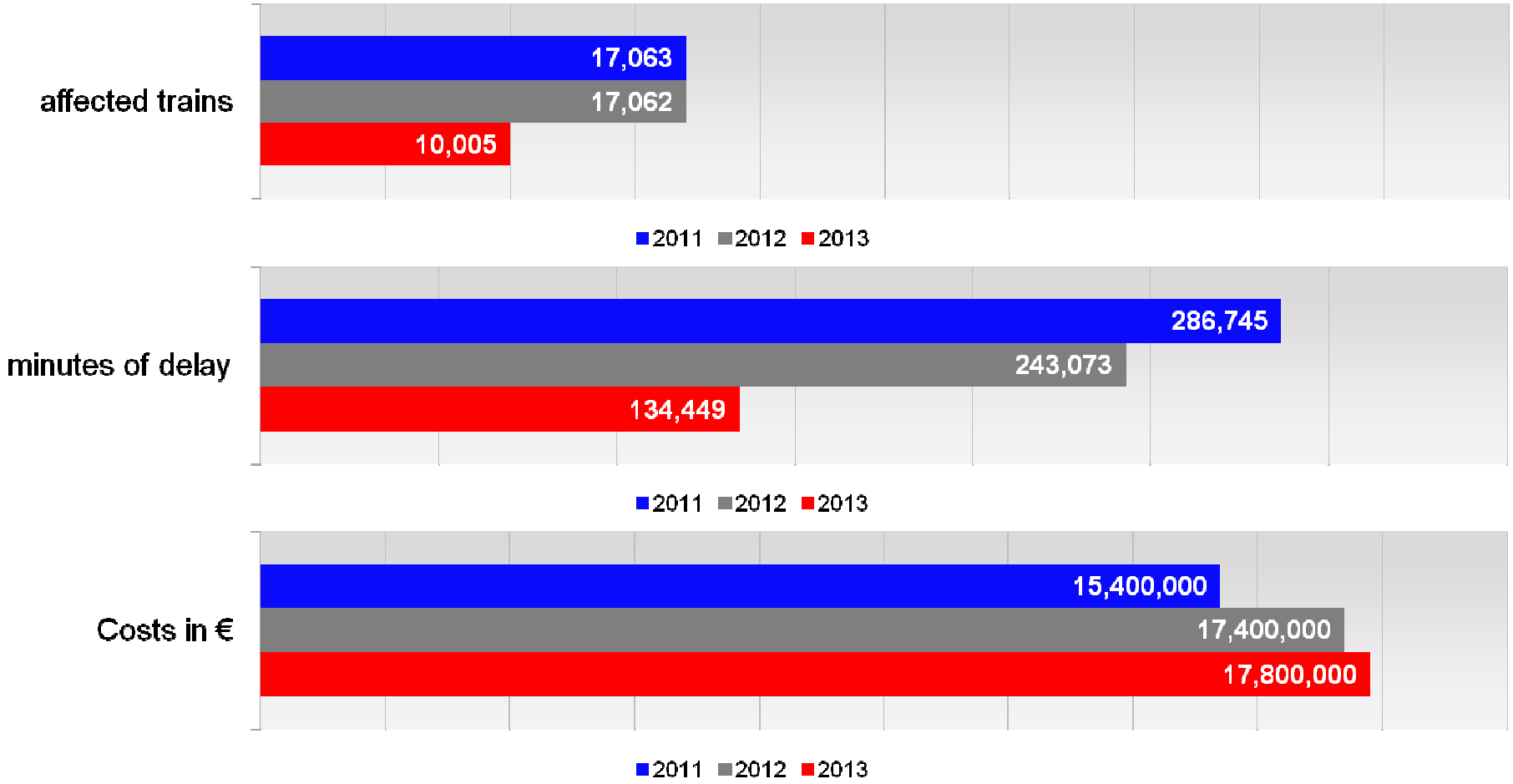
Total view of the years 2011 to 2013





Metal Theft
Operational impacts and costs

Operational impacts and costs of the years 2011 to 2013

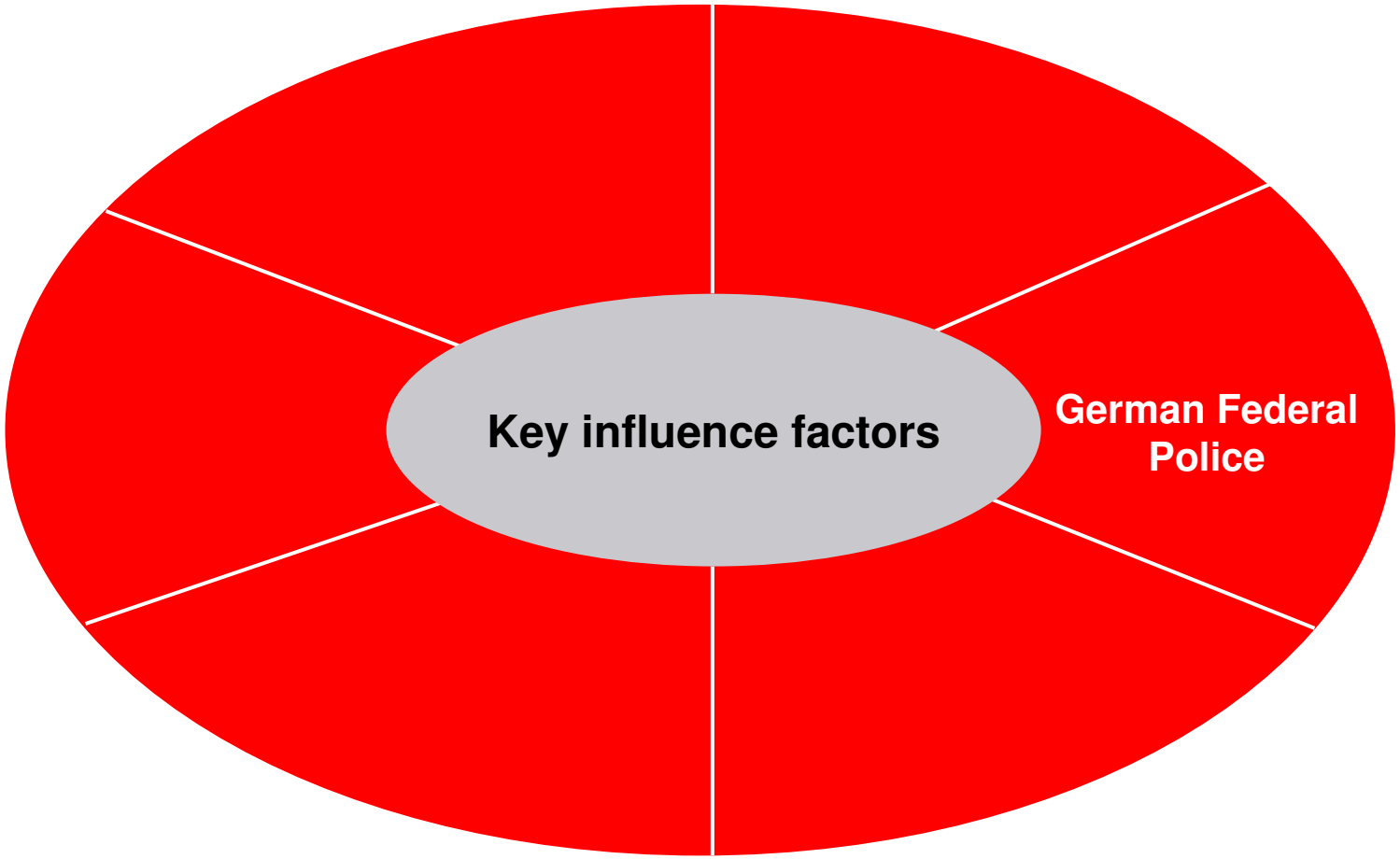


Metal Theft
What to do?

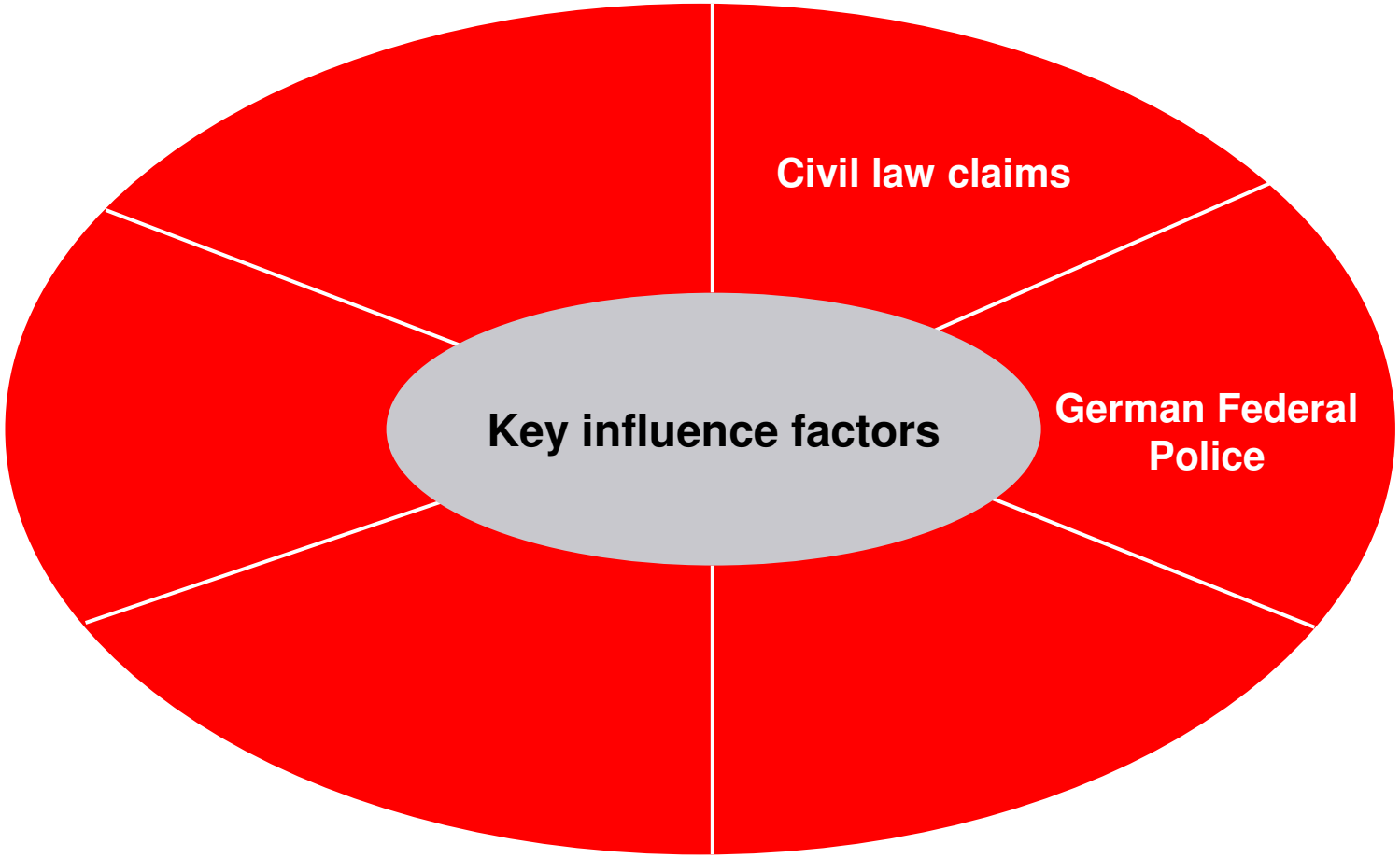
DB Mobility Networks Logistics

Key influence factors

Metal Theft
Key influence factors and measures



Metal Theft
Key influence factors and measures



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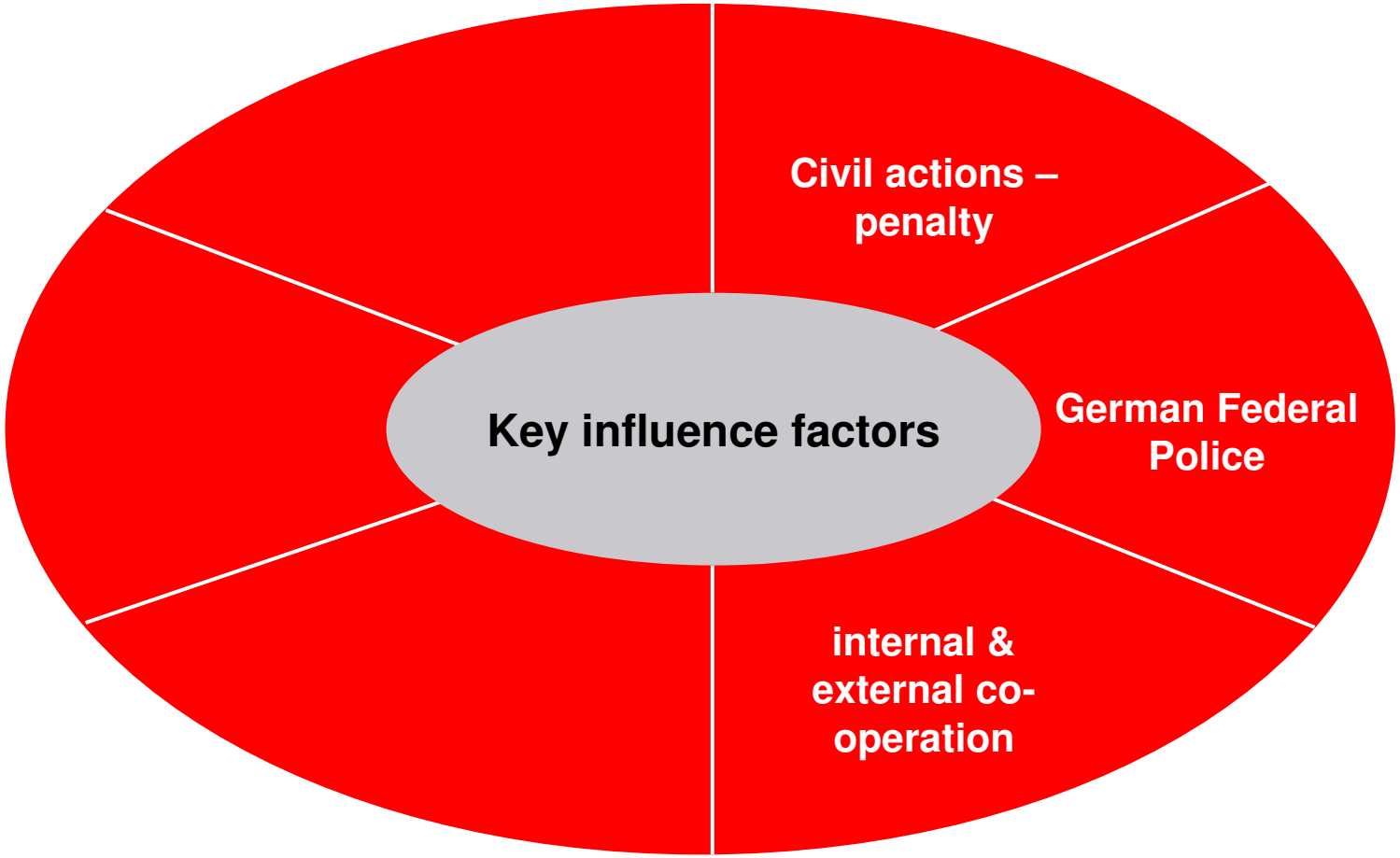
Key influence factors and measures



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SIPAM

DB Mobility Networks Logistics

VDM

VORWEG GEHEN

T

amprion

BDSV

TenneT

VATTENFALL

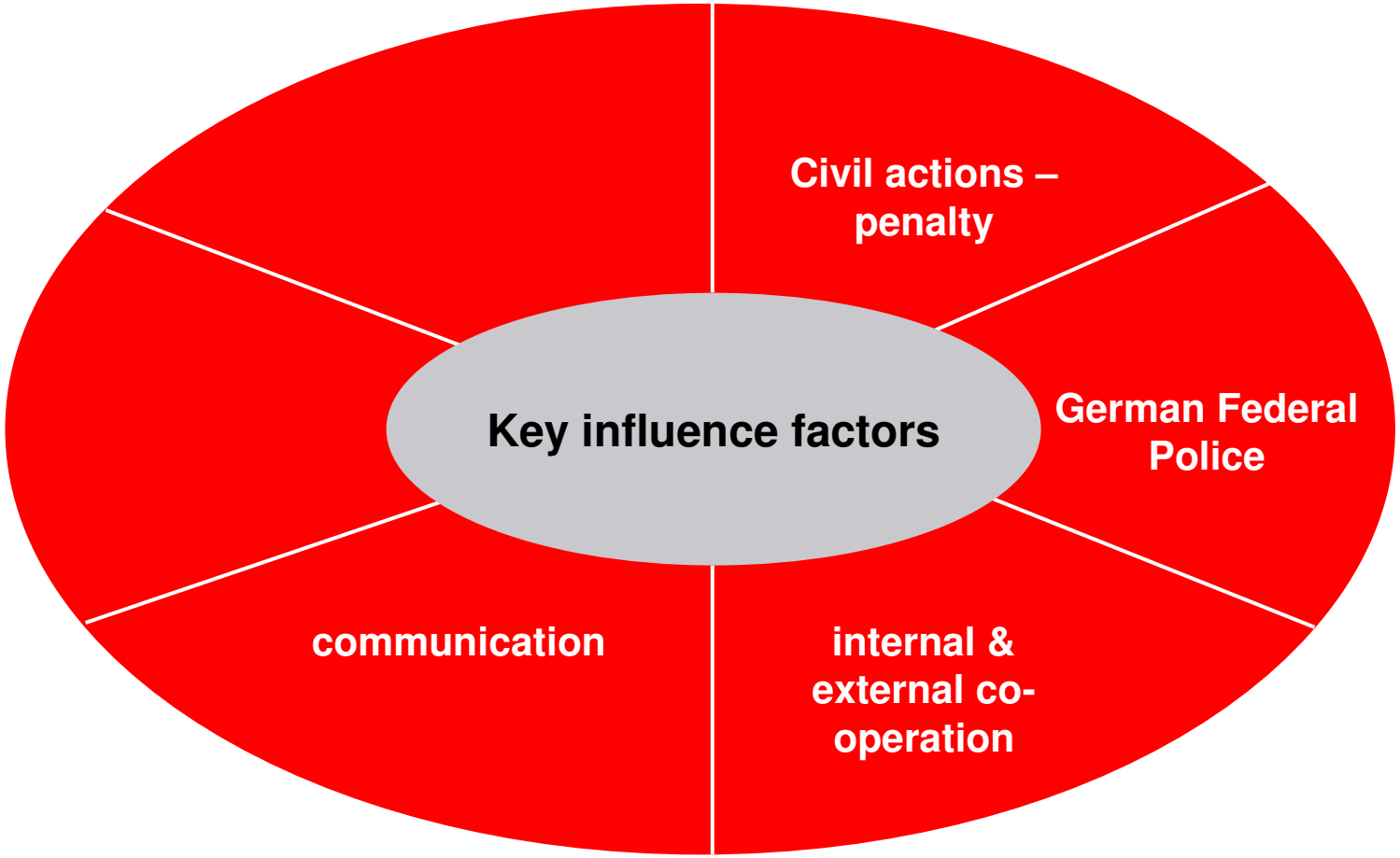
ThyssenKrupp

50hertz

TRANSNET BW

MIBRAG

Metal Theft
Key influence factors and measures



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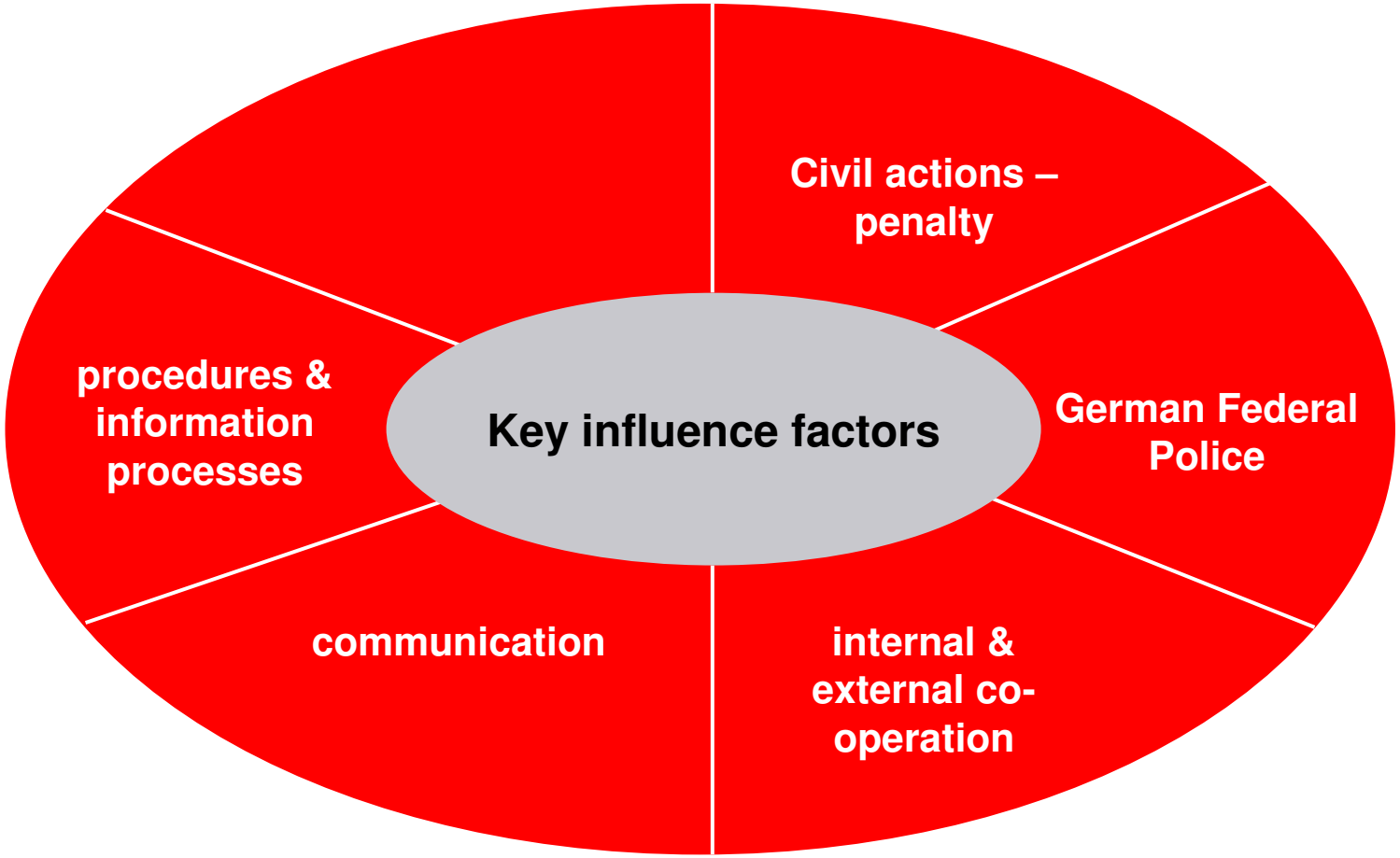
Key influence factors and measures



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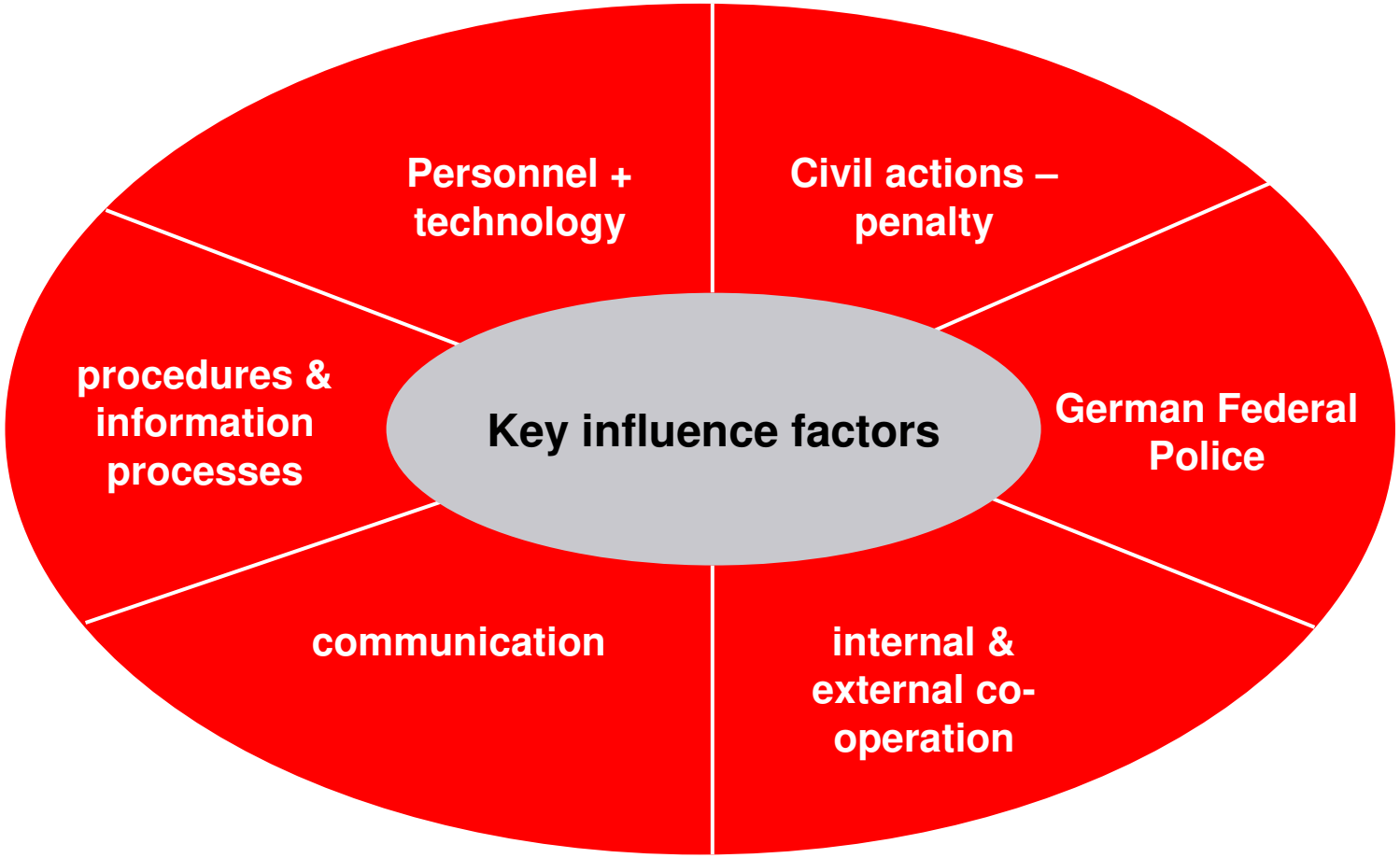
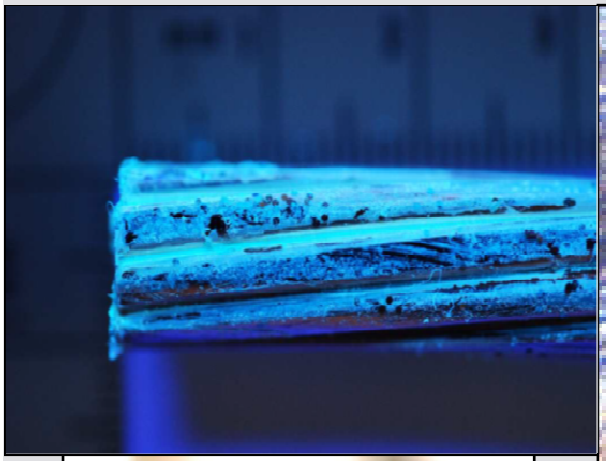
Key influence factors and measures



Technology
Artificial DNA



Technology
Artificial DNA

Verband
Deutscher
Metallhändler e.V.

DB Mobility Networks Logistics

Initial findings of practical tests involving "artificial DNA"

SIPAM Sicherheitspartnerschaft gegen Metalldiebstahl

Berlin, 20 June 2013

Nadine Zocher
Head of Environment & Recycling
Verband Deutscher Metallhändler e.V.

TESTING

Handheld UV lamp

TESTING

Handheld UV lamp and sample cable

TESTING

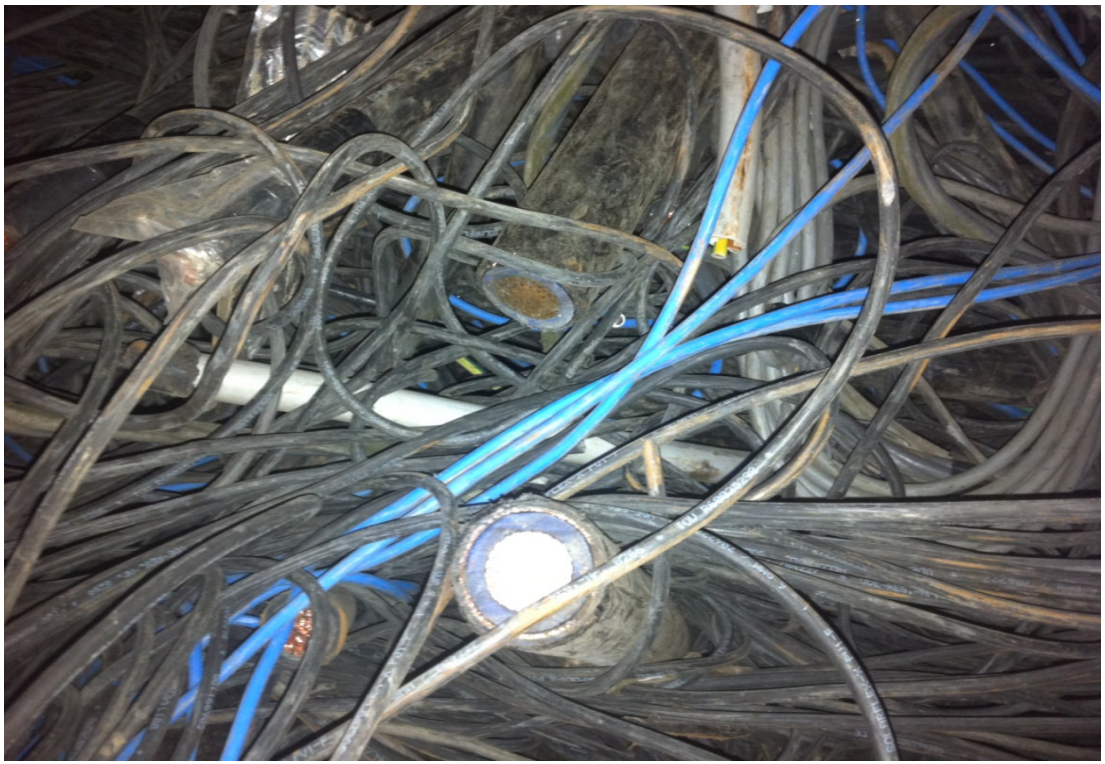
Sample among other cables in daylight

TESTING

Checking a load of cables in daylight

Possible sources of error

Cross-linked polyethylene in daylight



Possible sources of error

Cross-linked polyethylene under UV light

Possible sources of error

Paper
with the same
color as kDNA

Possible sources of error

Plastic cable ties under UV light

PROBLEMATIC NATURE OF EXCAVATOR LAMP

results

- Handheld UV lamp principally working
- kDNA is visible
- light conditions
- change the color and develop the durability of cables

➔ Change the product brief together with authorities

Unanswered questions – next steps?

Platform for Coordination ?

Security map ?

Distribution channel ?


DB
Achtung – unsichtbare Markierungen!
Die künstliche DNA führt zum Täter und macht Metalle unverkäuflich!