

# TeleTrust-interner Workshop

Essen, 29./30.06.2017

## IUNO

Germany's National reference project for IT-Security in Industrie 4.0

Dr. Thorsten Henkel

Fraunhofer SIT, Hauptabteilungsleiter

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# IT SECURITY IN CONTEXT OF INDUSTRIE 4.0 – PROTECTION OF PRODUCTION DATA

IUNO

Germany's National reference project for IT-Security in Industrie 4.0

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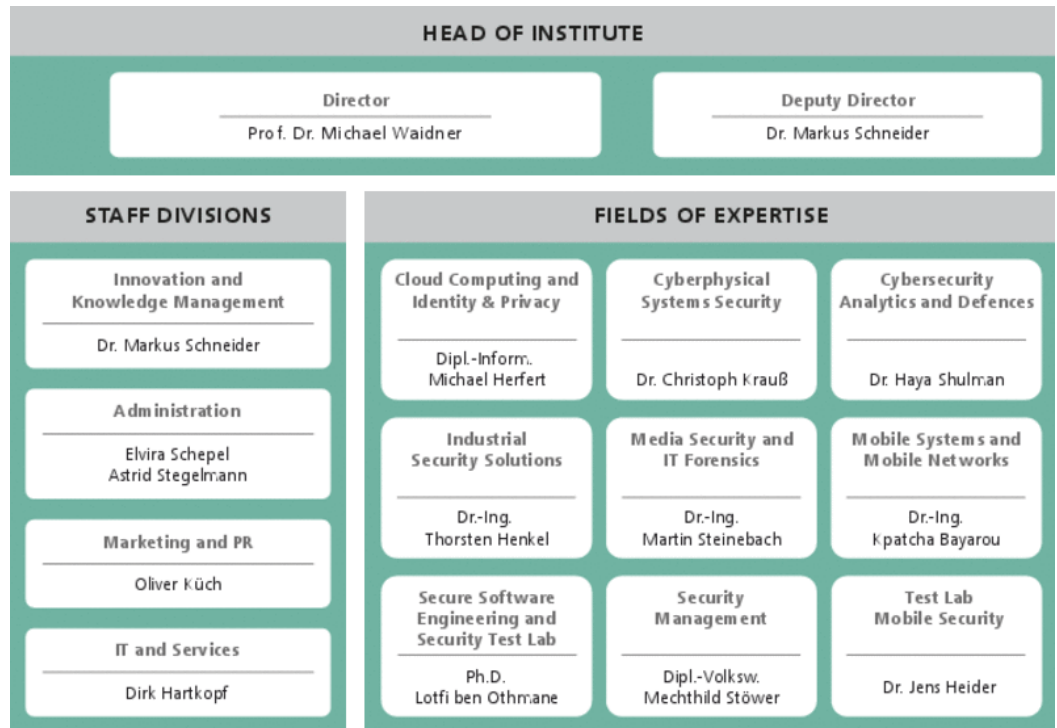
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# AGENDA

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- Fraunhofer SIT
- IUNO – BMWI Project
- Research & Solutions

# FRAUNHOFER INSTITUTE FOR SECURE INFORMATION TECHNOLOGY



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# FRAUNHOFER INSTITUTE FOR SECURE INFORMATION TECHNOLOGY

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Prof. Dr. Michael Backes

Center for IT-Security, Privacy  
and Accountability (CISPA)



Prof. Dr. Jörn Müller-Quade

Kompetenzzentrum für  
angewandte  
Sicherheitstechnologie



Prof. Dr. Michael Waidner

Center for Research in Security  
and Privacy



Nationales Referenzprojekt  
**IT-Sicherheit in Industrie 4.0**

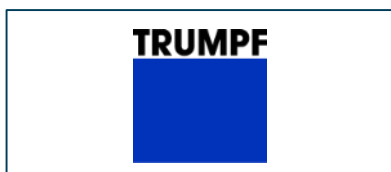
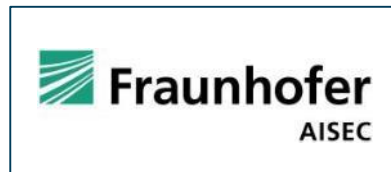
# IUNO

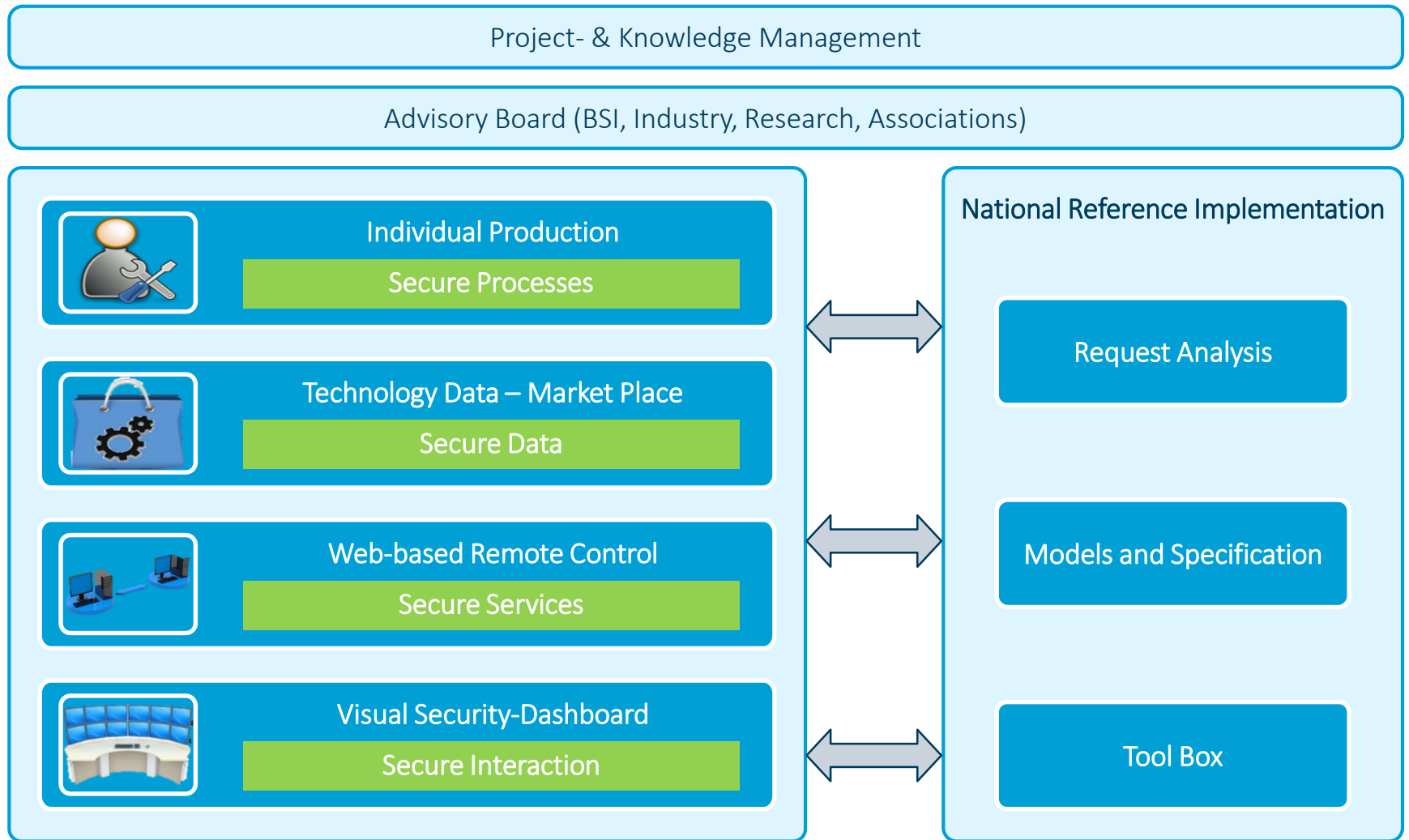
## National Reference Projekt IT-Security for Industrie 4.0

Dr. Thorsten Henkel  
Fraunhofer SIT - Industrial Security Solutions  
Darmstadt, 15.02.2016

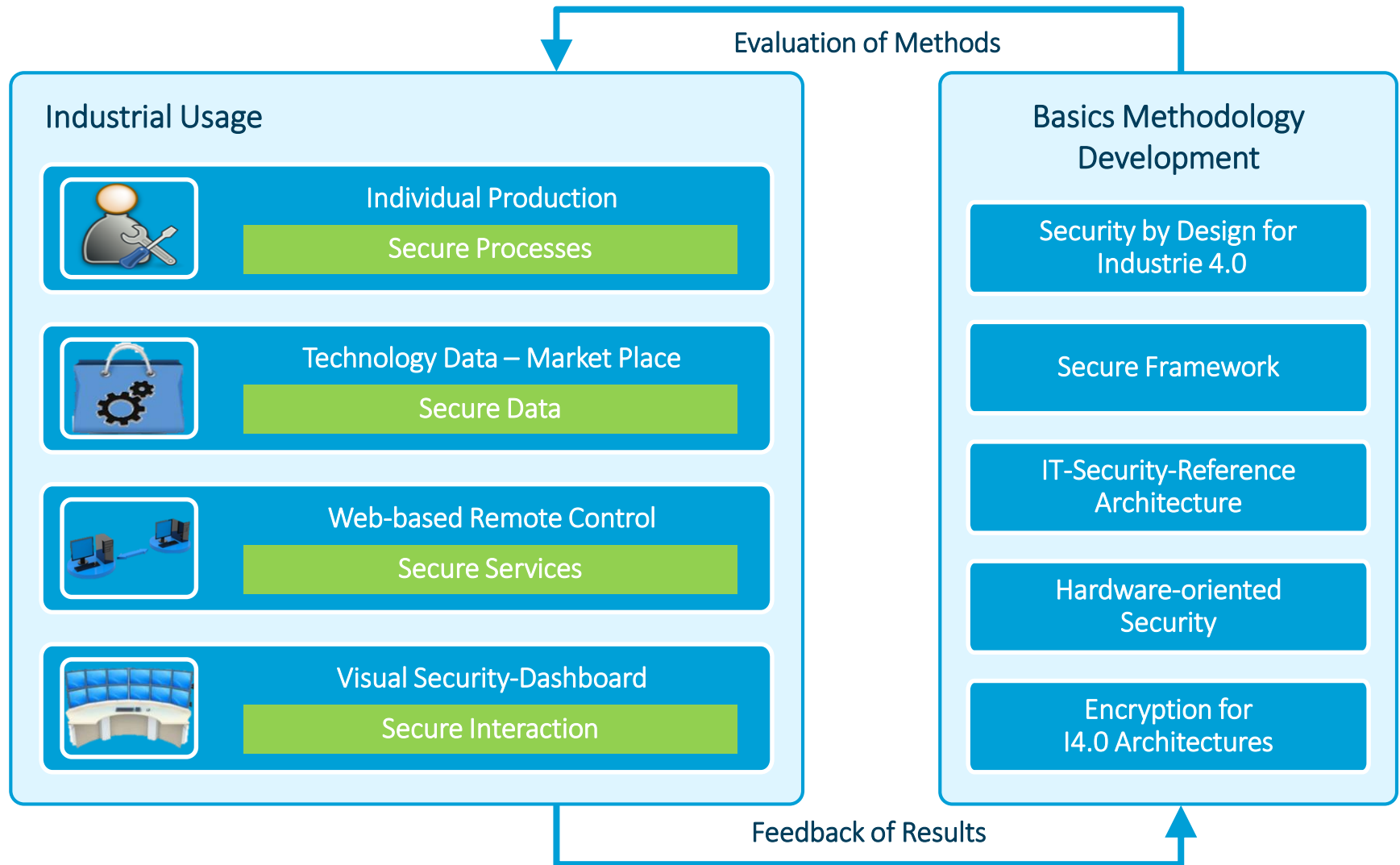


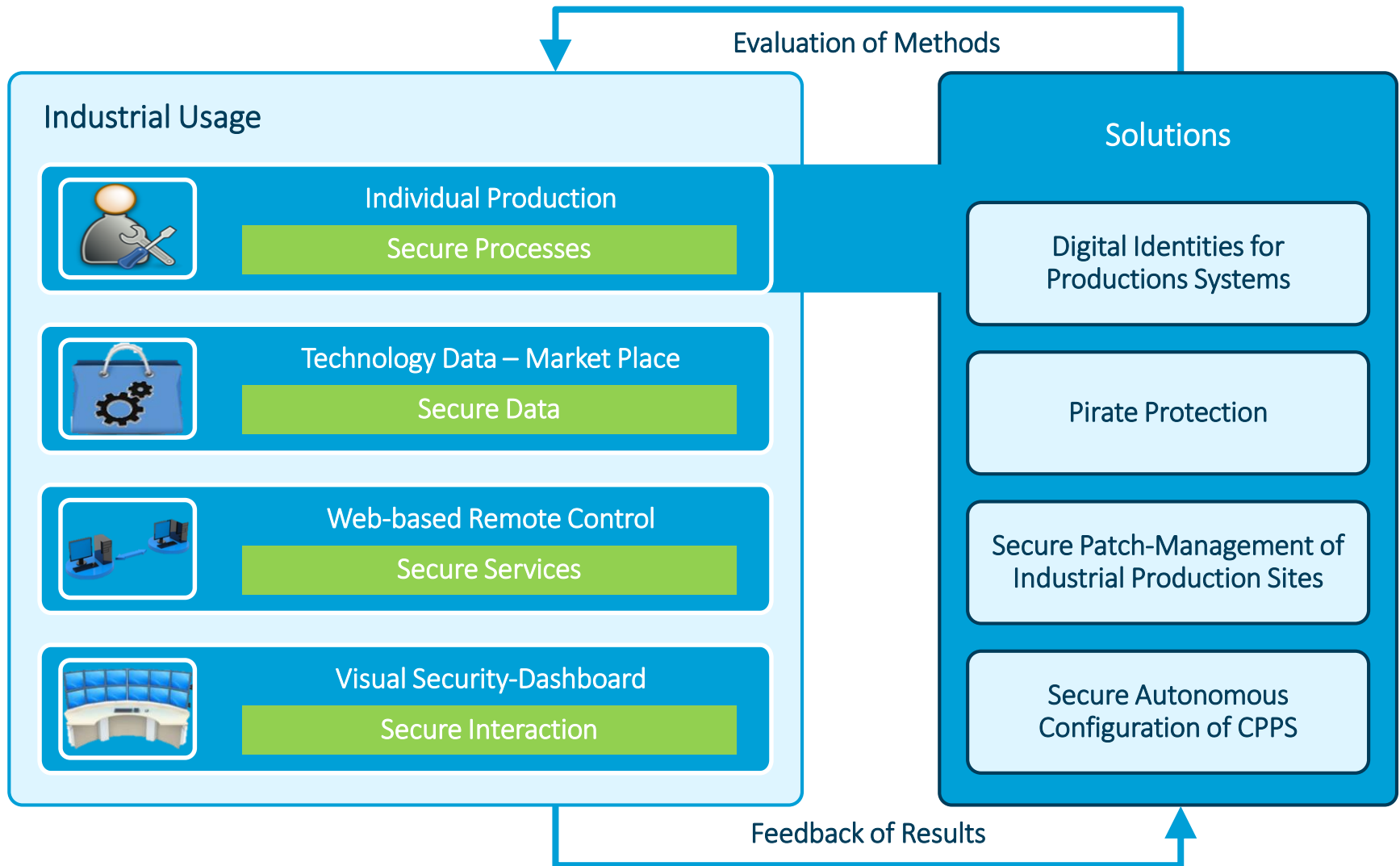
# IUNO combines the German expertise in IT-Security and Industrie 4.0

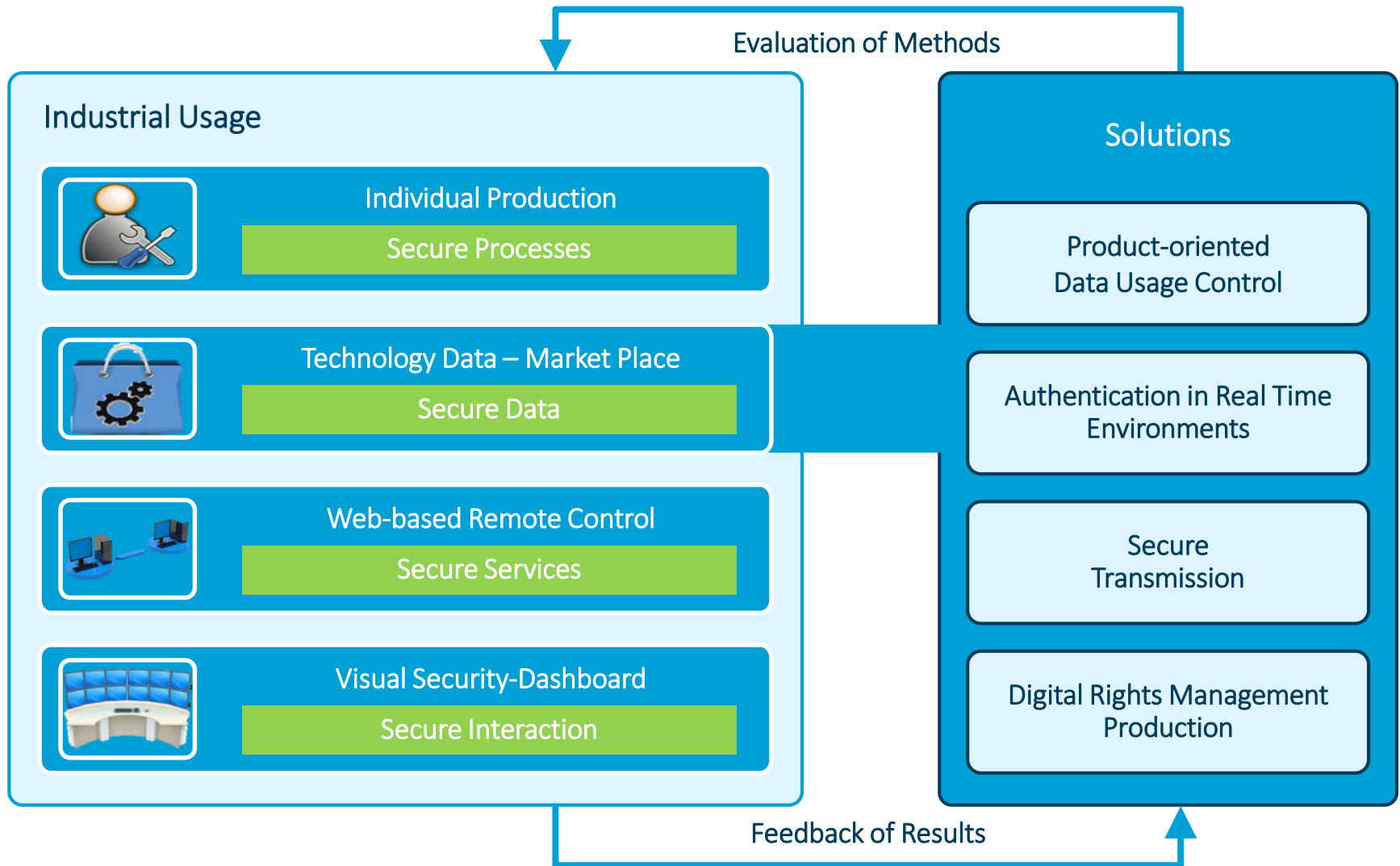


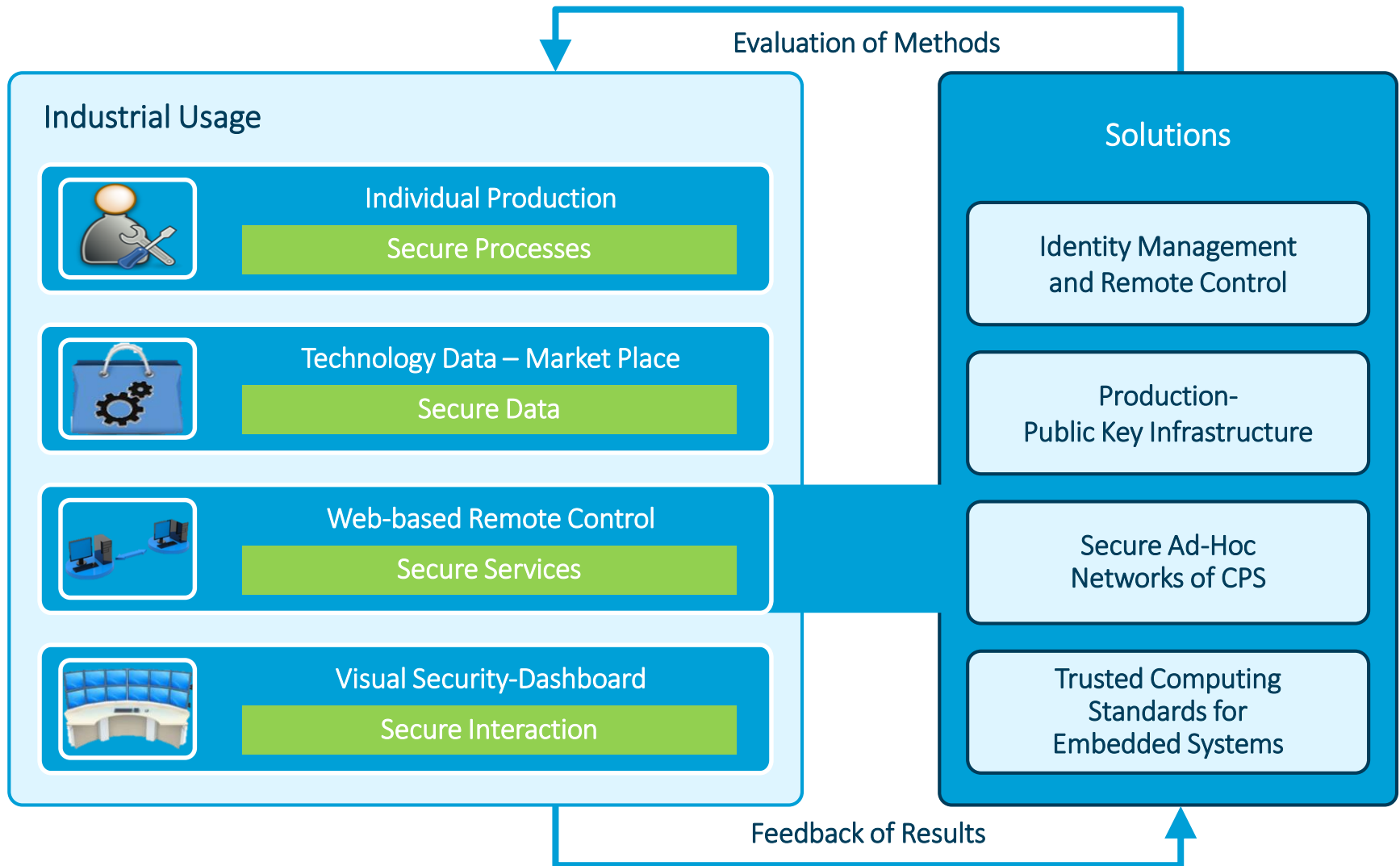


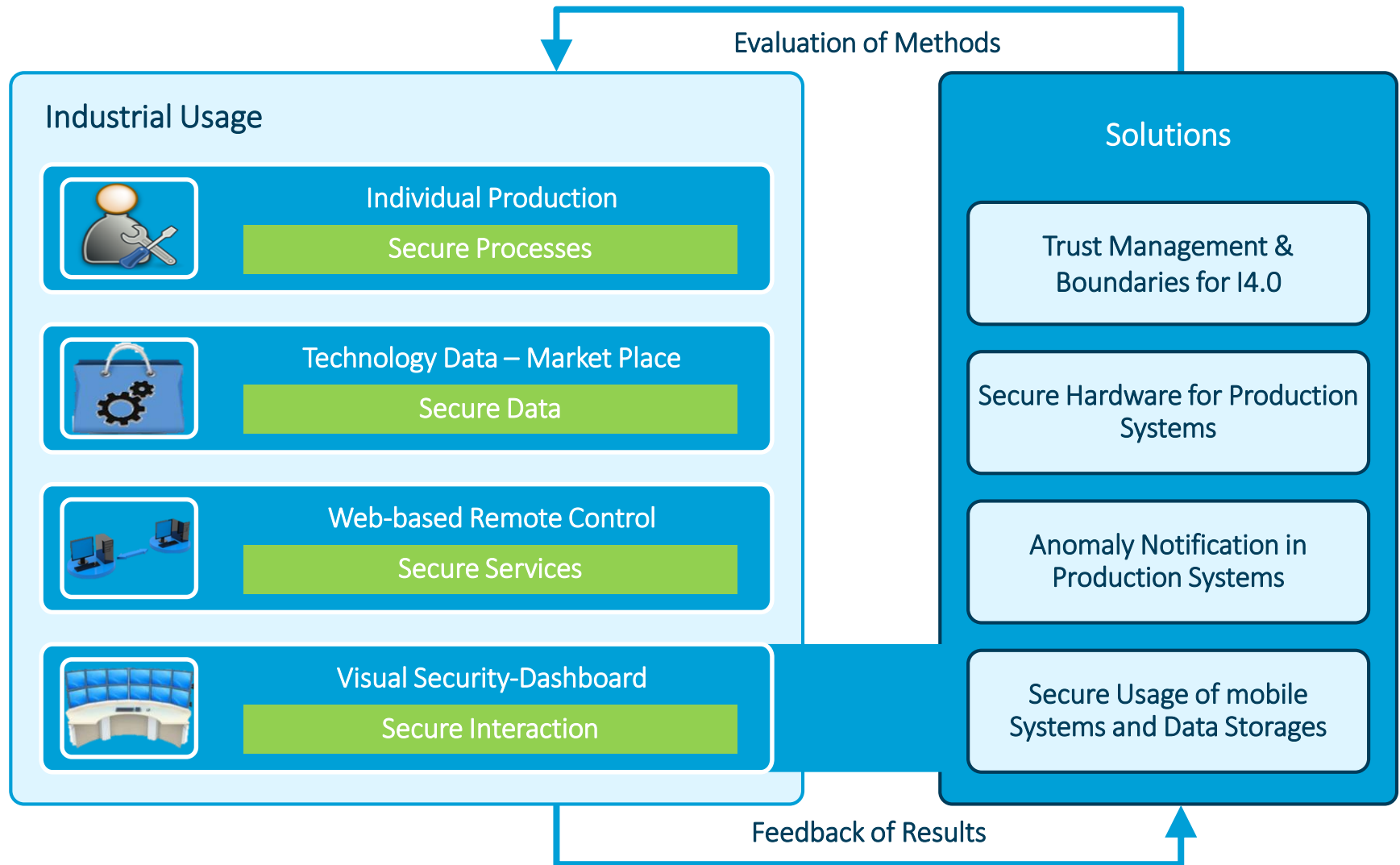










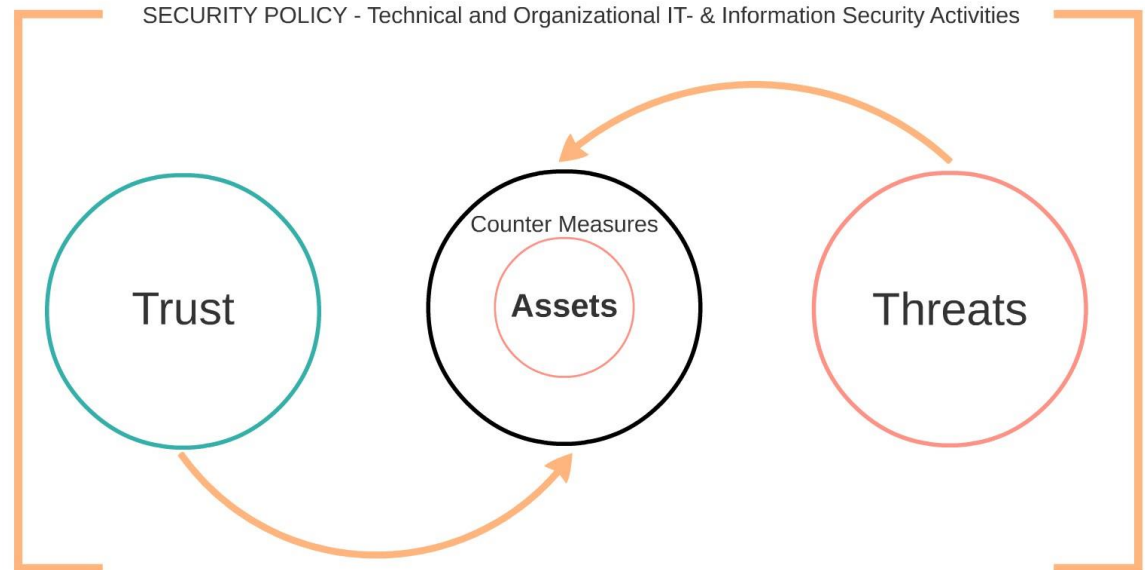


# IT-Security for Industrie 4.0

## IUNO – Industrial Security Policy Development

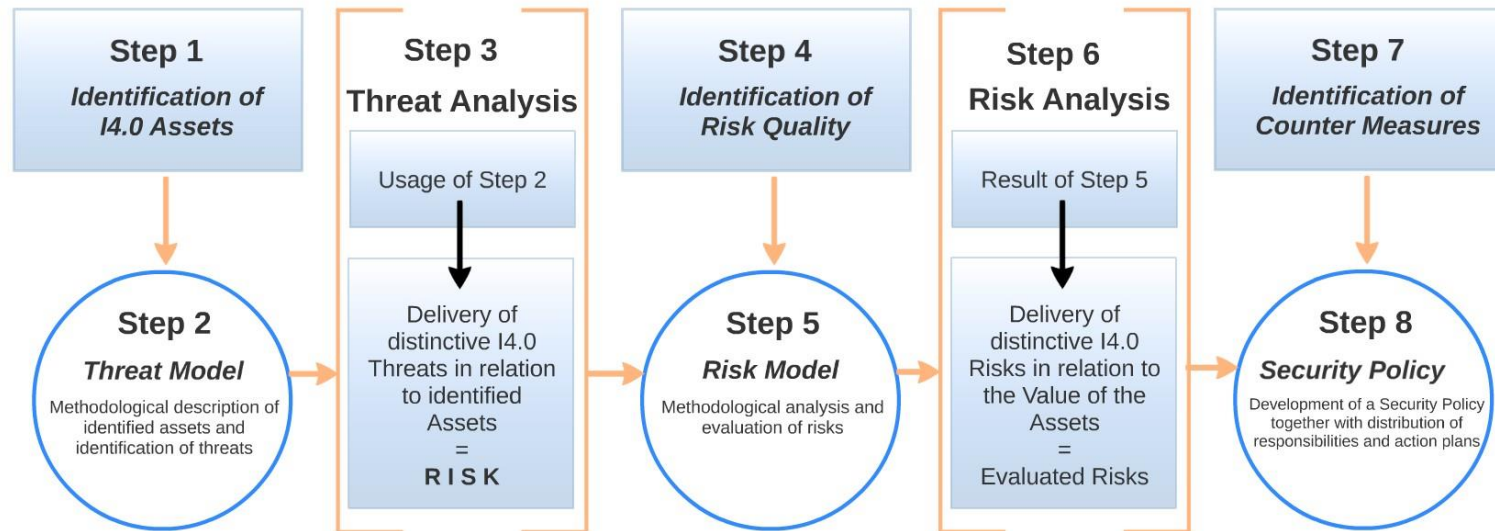
### IT-Security Protection Goals

- Data- Confidentiality
- Data- Authenticity
- Data- Integrity
- Data- Availability



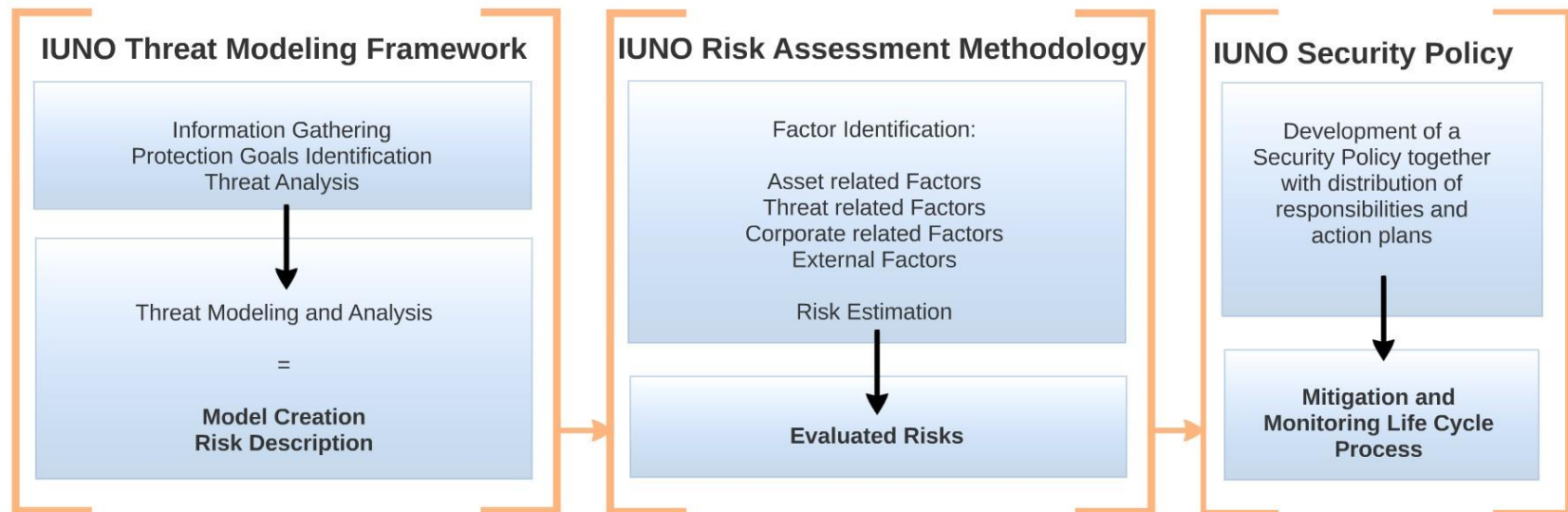
# IT-Security for Industrie 4.0

## IUNO – Industrial Security Policy Development



# IT-Security for Industrie 4.0

## IUNO – Industrial Security Policy Development





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# FRAUNHOFER INSTITUTE FOR SECURE INFORMATION TECHNOLOGY

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# FRAUNHOFER INSTITUTE FOR SECURE INFORMATION TECHNOLOGY

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## Expertise & Competences

### Method Competences

- Analysis and Evaluation of Industrial Security Concepts
- Testing of Regulation and Control Systems
- Development and Evaluation of Apps
- Development of Information Security Concepts
- Secure Engineering Methods for Regulation and Control Systems Software Engineering

### Technology Competences

- Development of Technologies for Product- and Pirate Protection
- Development of Technologies for secure Identification of components and efficient Key Management
- Development of Technologies for distributed Security-Monitoring of Components
- Development of Secure Engineering Test-tools