

# Prerequisites for digitization of Swedish industry

Peter Wallin - Program Director, PiiA



PiiA is hosted by:



Med stöd från



Strategiska  
innovations-  
program

# Strategic innovation programs



Med stöd från

**VINNOVA**  
Sveriges innovationsmyndighet

 **Energimyndigheten**

**FORMAS**

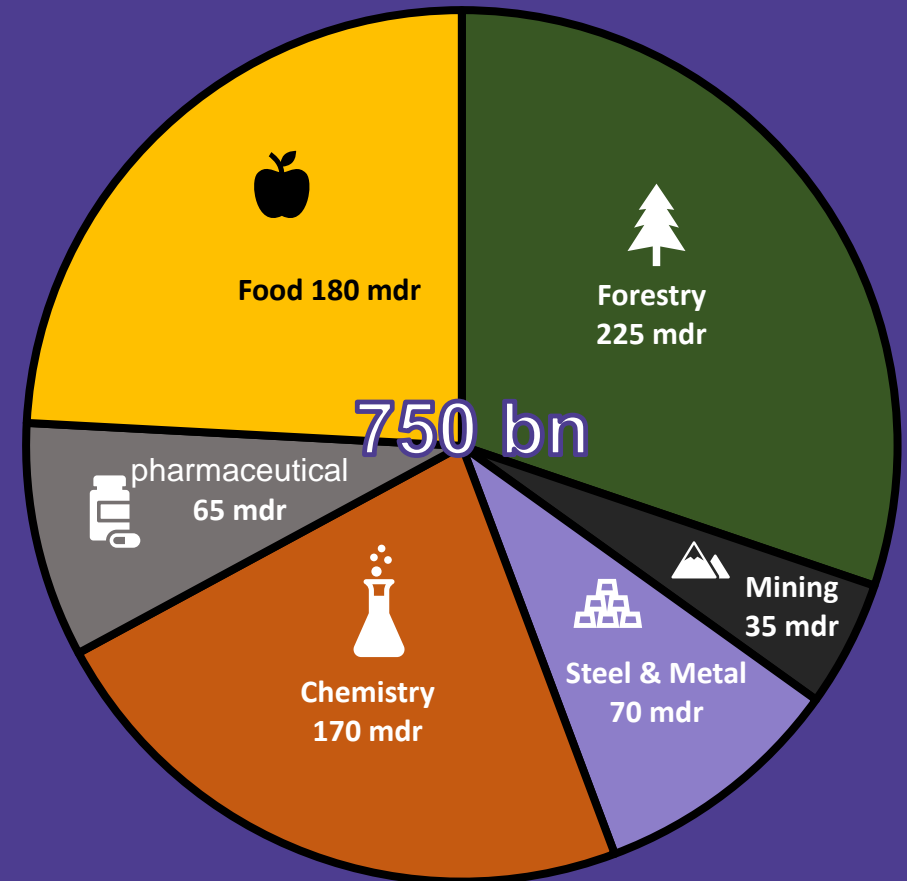
Strategiska  
innovations-  
program

**Pi!A**  
Process Industrial IT and Automation

# PiiA's Markets

Digital  
technologies  
(SE)  
ca 70 - 100 bn

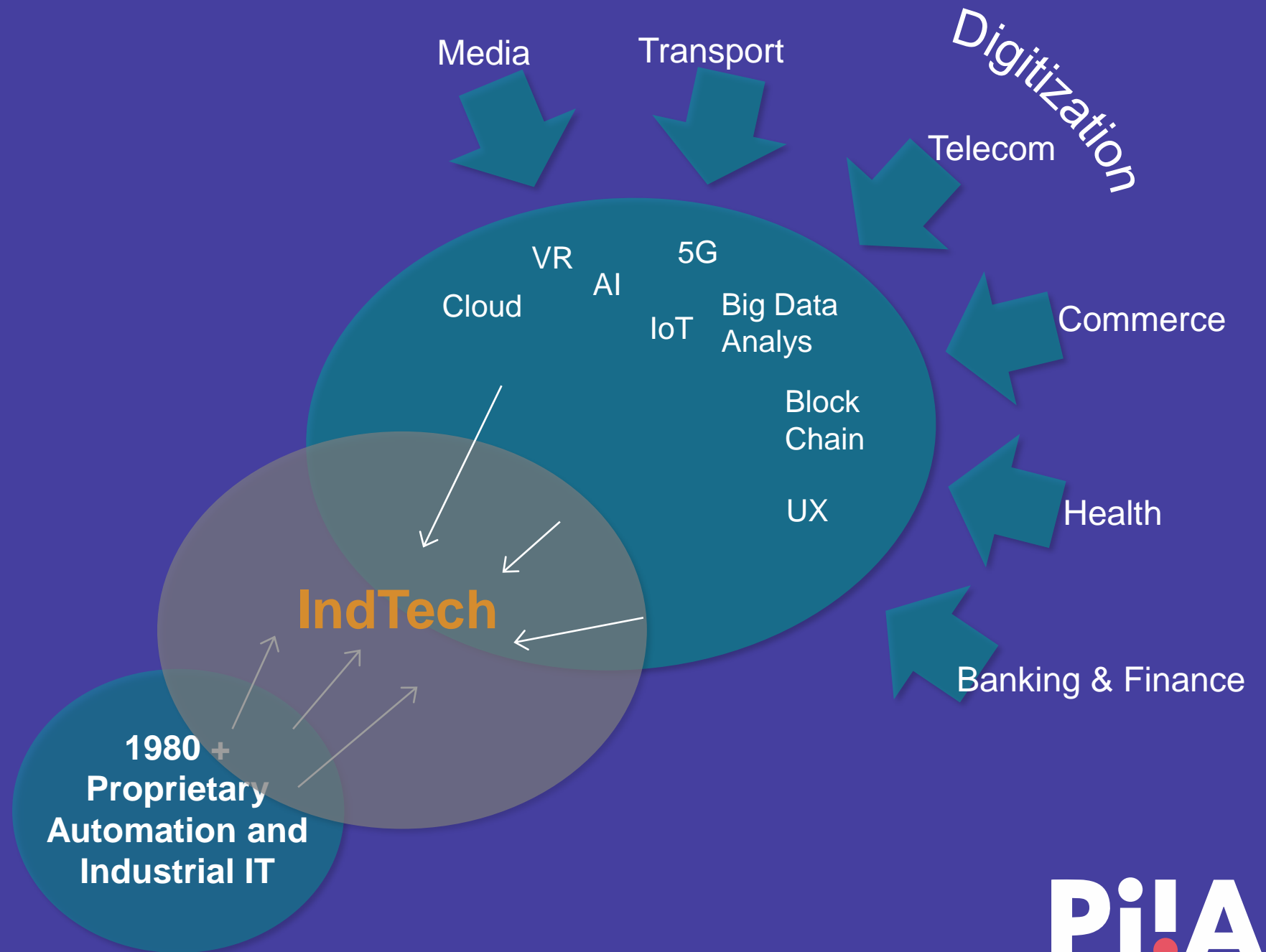
Pi!A



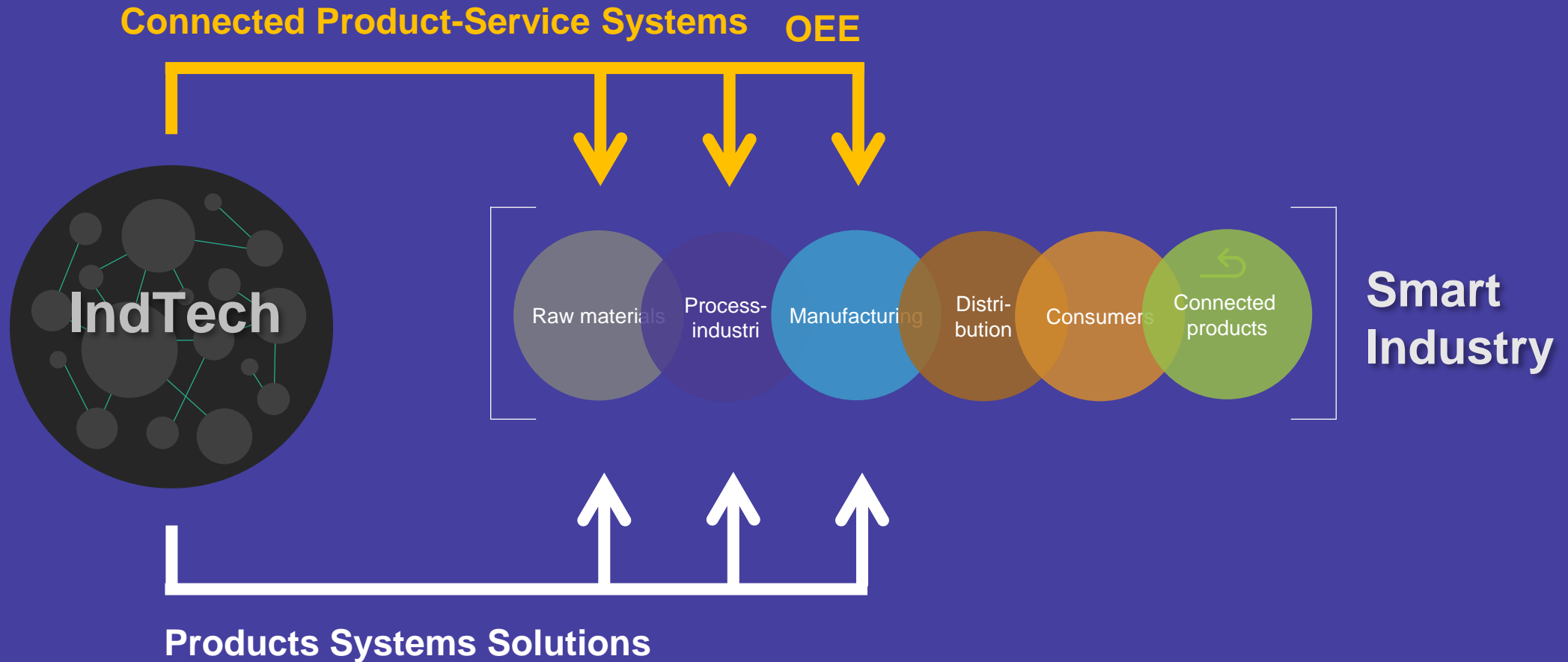
Pi!A

# PiiA & IndTech

Industrial IT & automation meets digitization ...



# IndTech - Technology that makes the industry smart!





# PiiA: strategy and tools



**PiiA Projects**



**PiiA Insight**



**PiiA Research**



**PiiA Innovation**





*150 projects*



*680 MSEK*

*50 active projects*



*220 organizations*



*340 MSEK*







RESULTS



Reduced energy consumption by using machine learning to optimize the district heating system

Partners include: Mälarenergi, ABB . .






## Increased personal safety with IoT solutions

Partners include: SSAB, Kanthal, Boris, Forslund Systems, SSG . .





Increased availability with advanced prediction of lightning strikes. A cloud service that uses many different data sources with to predict lightning strikes with great accuracy

Partners include: ABB, BillerudKorsnäs, LKAB, SMHI, SCA Obbola/Östrand, Vattenfall . . .

Increased efficiency and traceability through a automated digital solution to measure large quantities of raw materials in the process industry



Partners include: Boliden Rönnskär, Smurfit Kappa, Metsä Board, SCA Obbola, Norra Timber Kåge såg, DataPolarna, Adopticum samt Luleå Tekniska Universitet





Reduced energy consumption by using machine learning to optimize the ventilation of underground mines

Partners include: Boliden och ABB . .





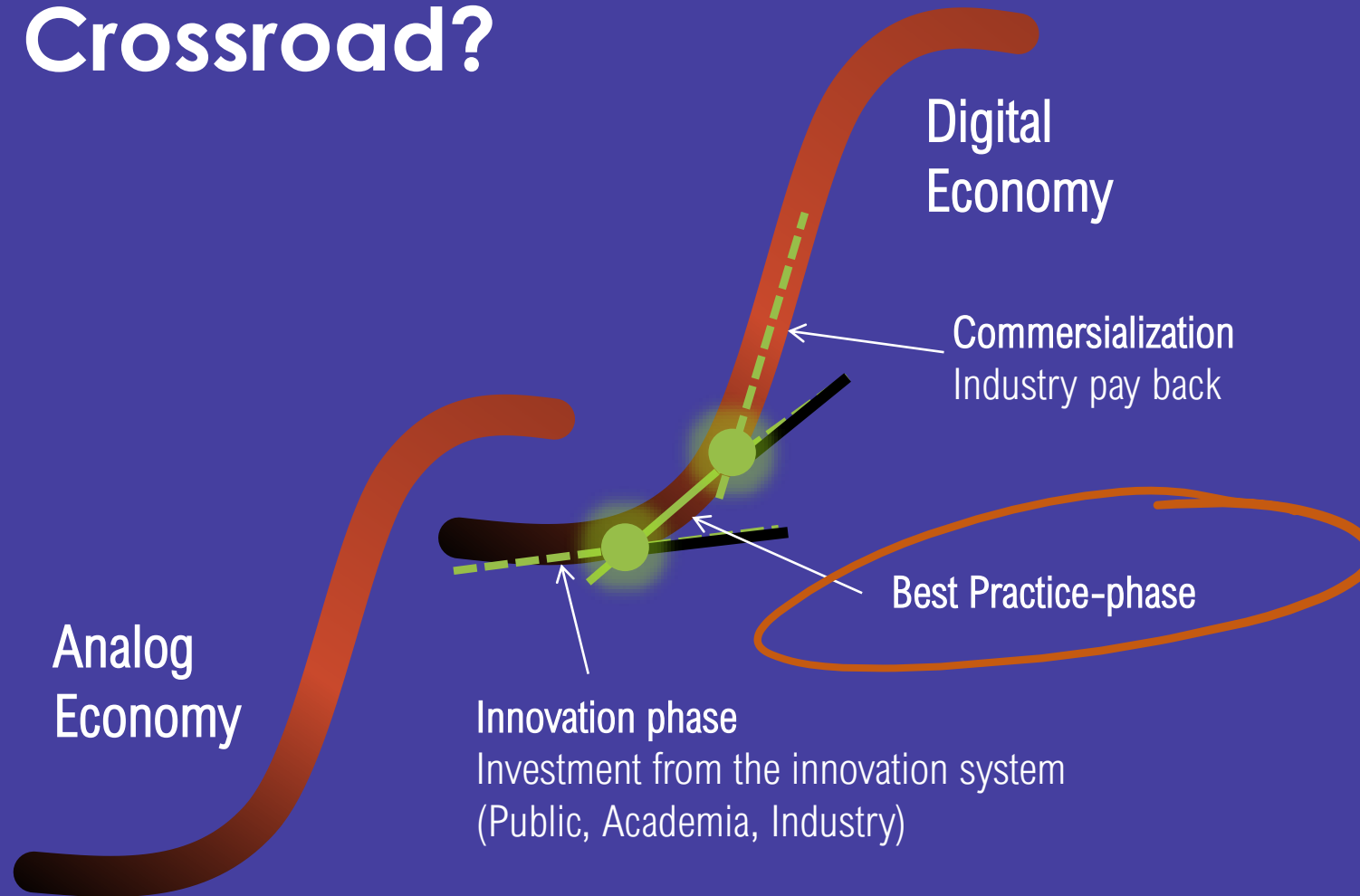
Increased personal safety with a remote controlled wheel loader operating in a real mine 400 m under ground



Partners include: Volvo CE, Boliden, ABB och Ericsson. . .



# Crossroad?



# Prerequisites for digitization of industry

Drive “best practice”

Security

Ownership of data

## INTEROPERABILITY

Standards

Business models

Educate management



# Pi!A

Process Industrial IT and Automation