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# BACK TO THE FUTURE: SCOPING DYNAMICS IN INDUSTRIAL INNOVATION

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**Dr. Sven Schimpf**  
Concordi | 26th of September 2019



# OBJECTIVES

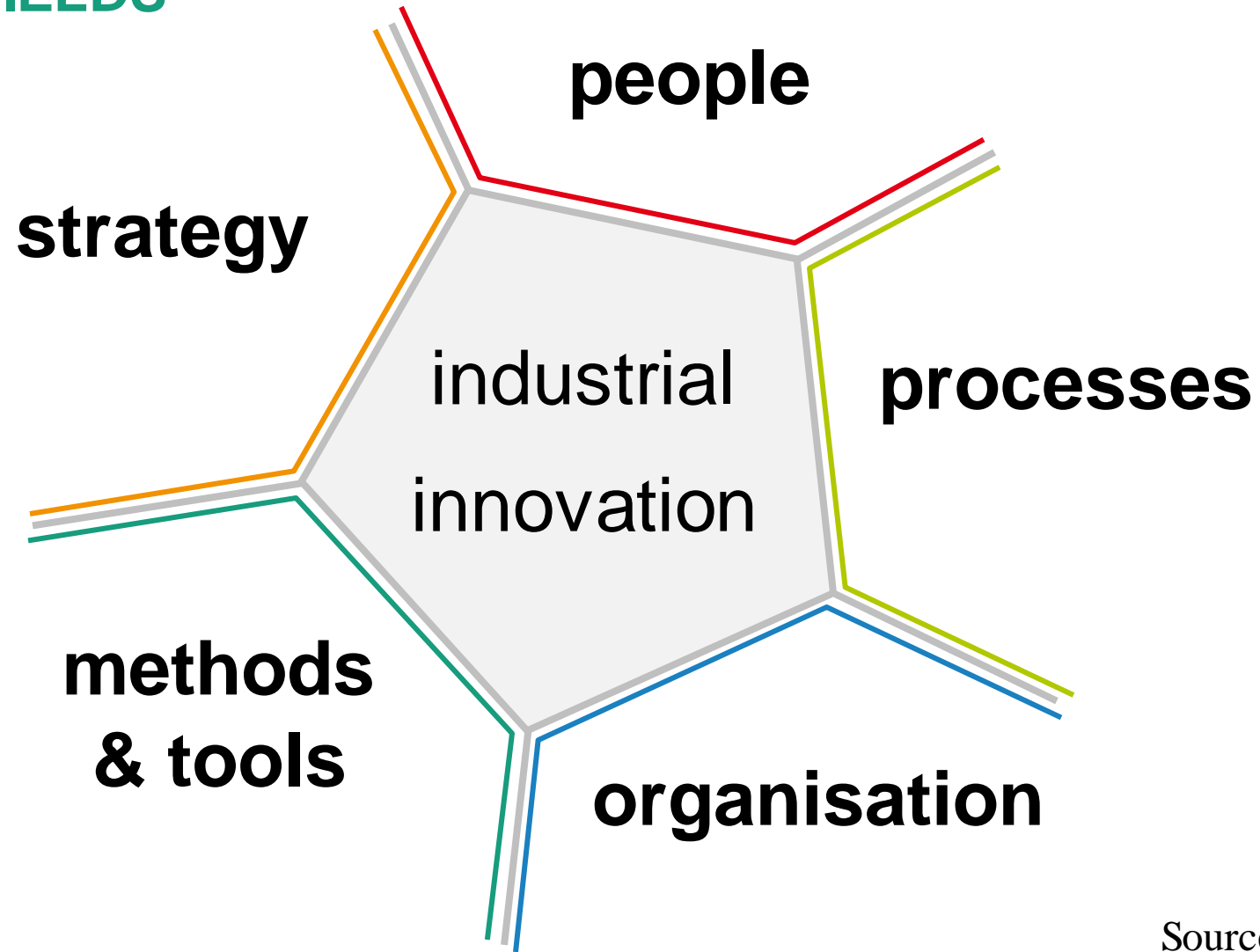
## SCOPING DYNAMICS: EX POST – EX ANTE

- What were the signposts of industrial innovation in the last century?
  - How will industrial innovation look like in 2030?
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- Literature analysis: history of industrial innovation
  - Foresight study: innovation 2030

# HISTORY OF INDUSTRIAL INNOVATION

# STRUCTURE OF INDUSTRIAL INNOVATION

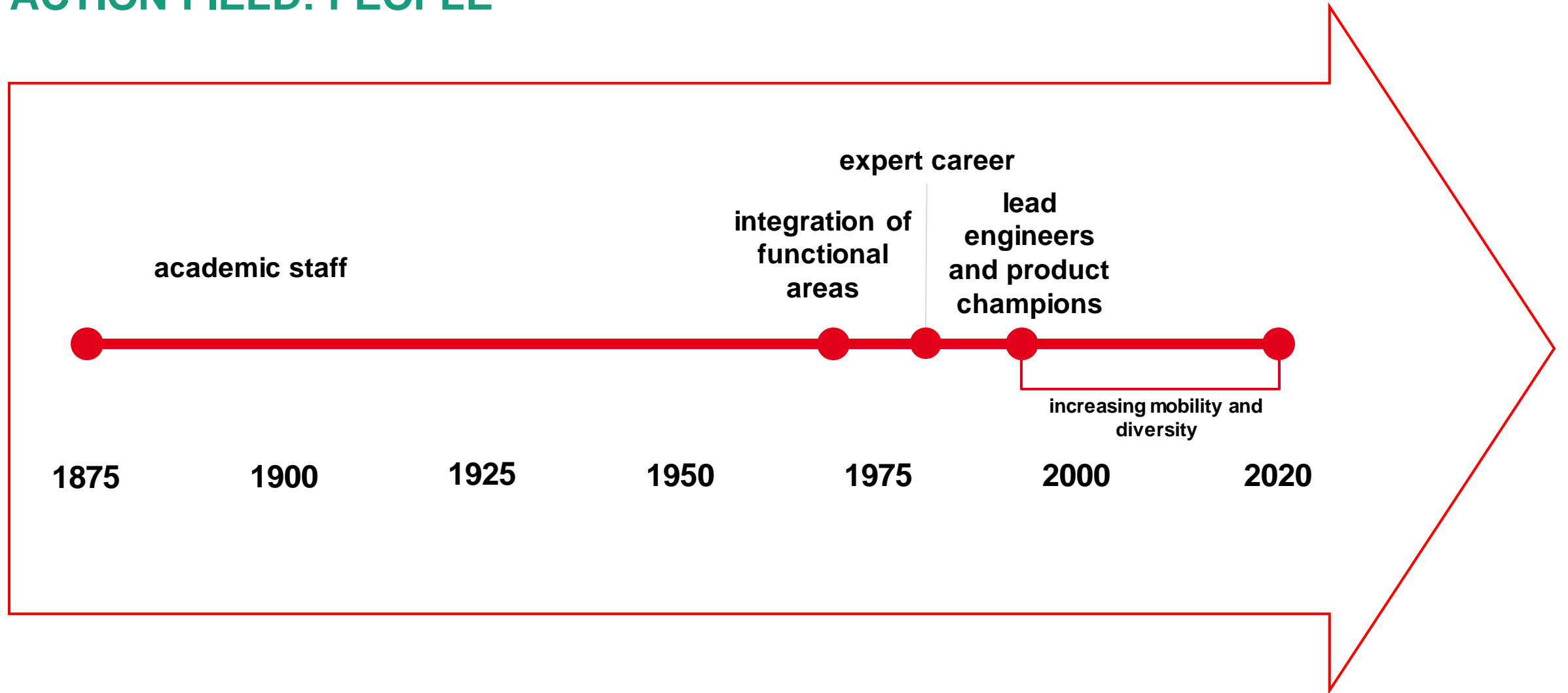
## FIVE ACTION FIELDS



Source: Gelec et al. 2015, 70f

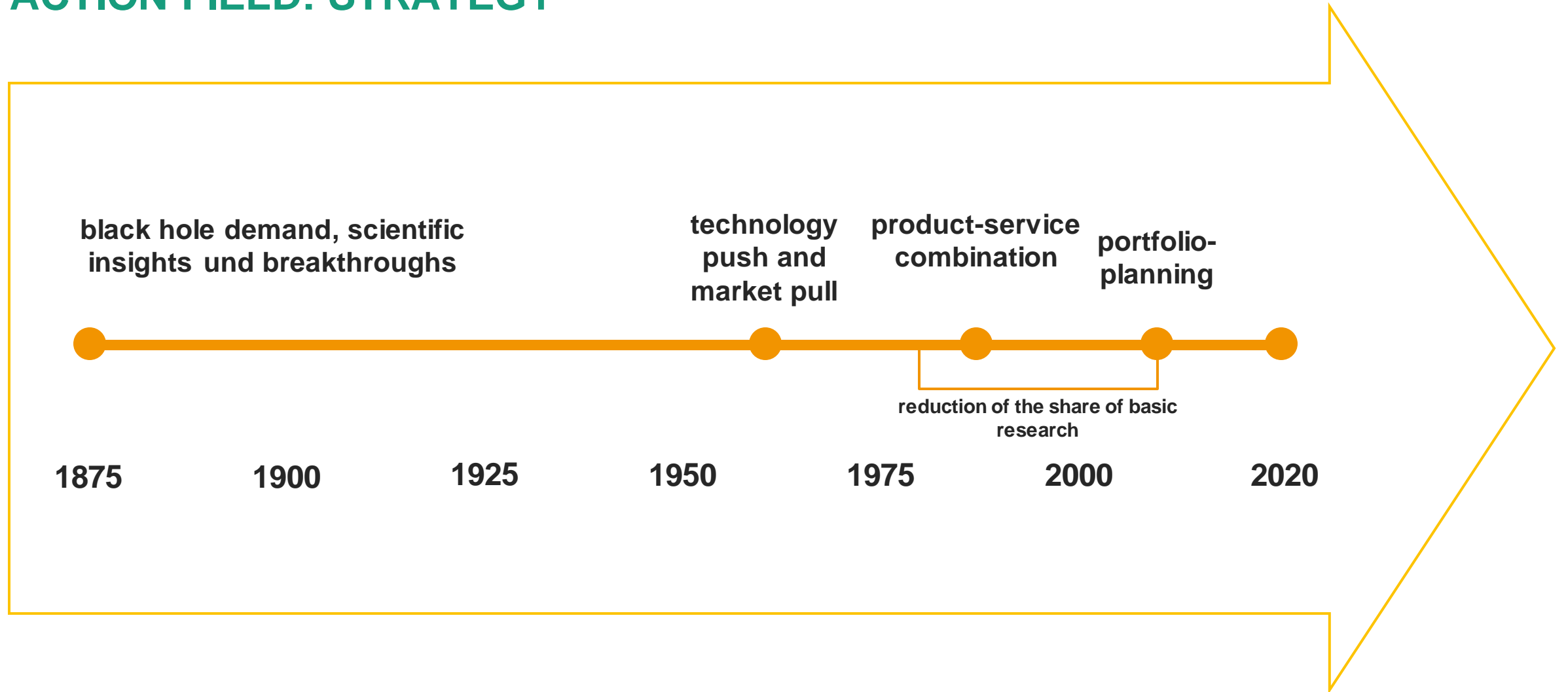
# HISTORY OF INDUSTRIAL INNOVATION

## ACTION FIELD: PEOPLE



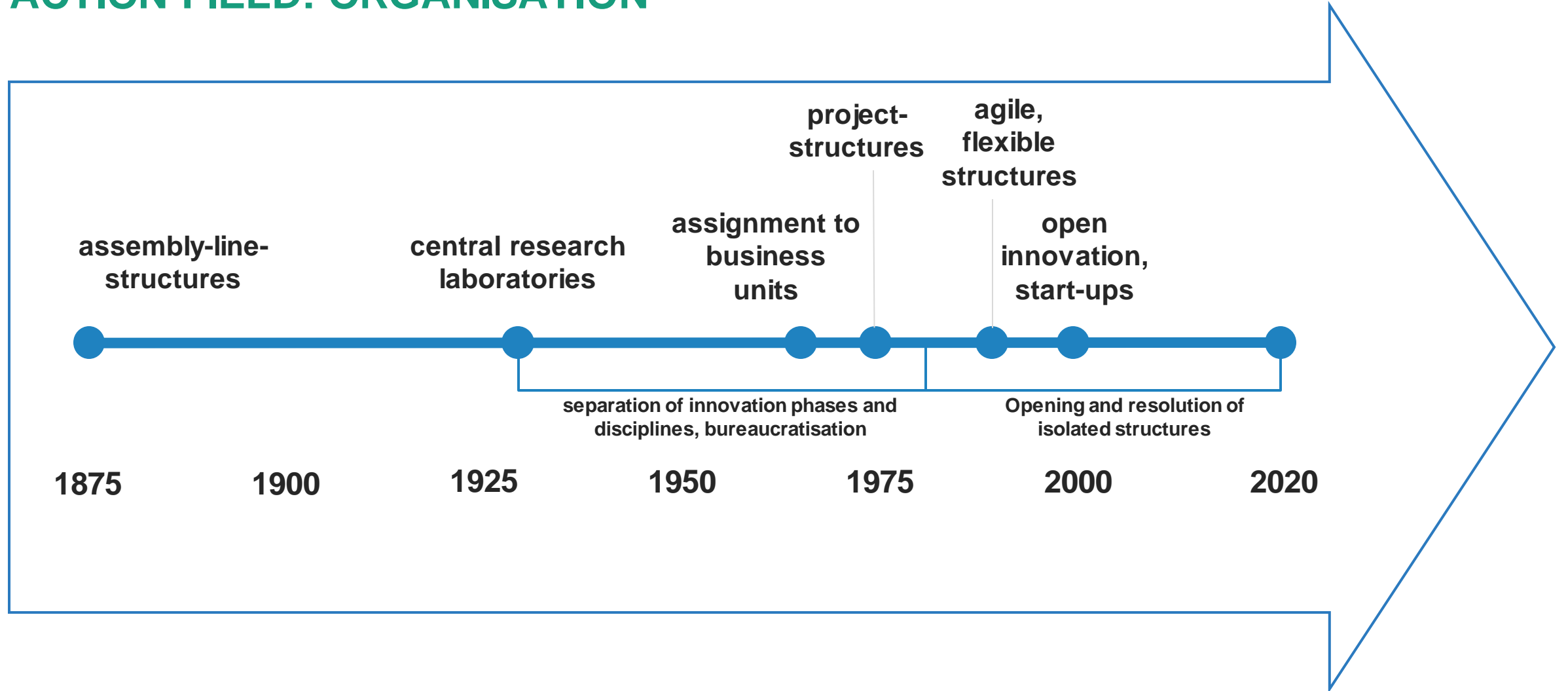
# HISTORY OF INDUSTRIAL INNOVATION

## ACTION FIELD: STRATEGY



# HISTORY OF INDUSTRIAL INNOVATION

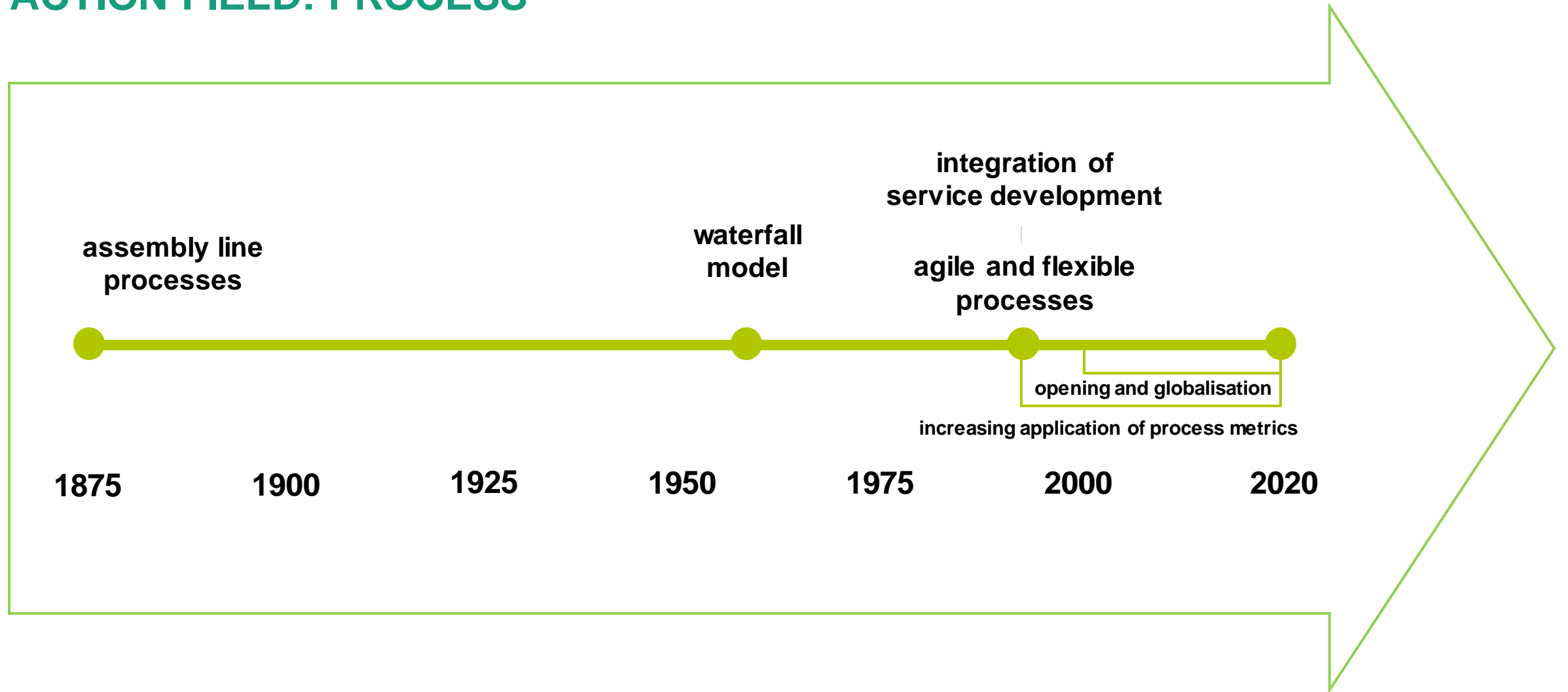
## ACTION FIELD: ORGANISATION





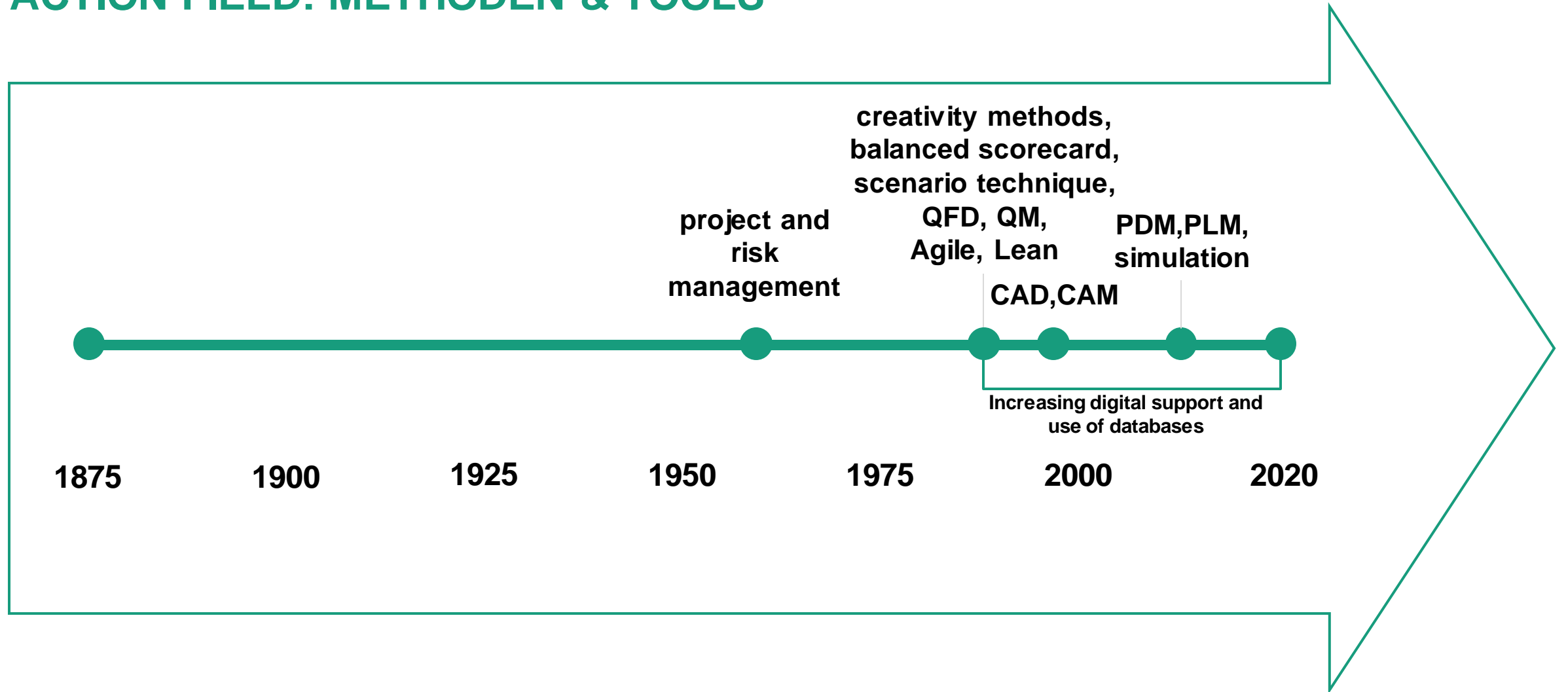
# HISTORY OF INDUSTRIAL INNOVATION

## ACTION FIELD: PROCESS



# HISTORY OF INDUSTRIAL INNOVATION

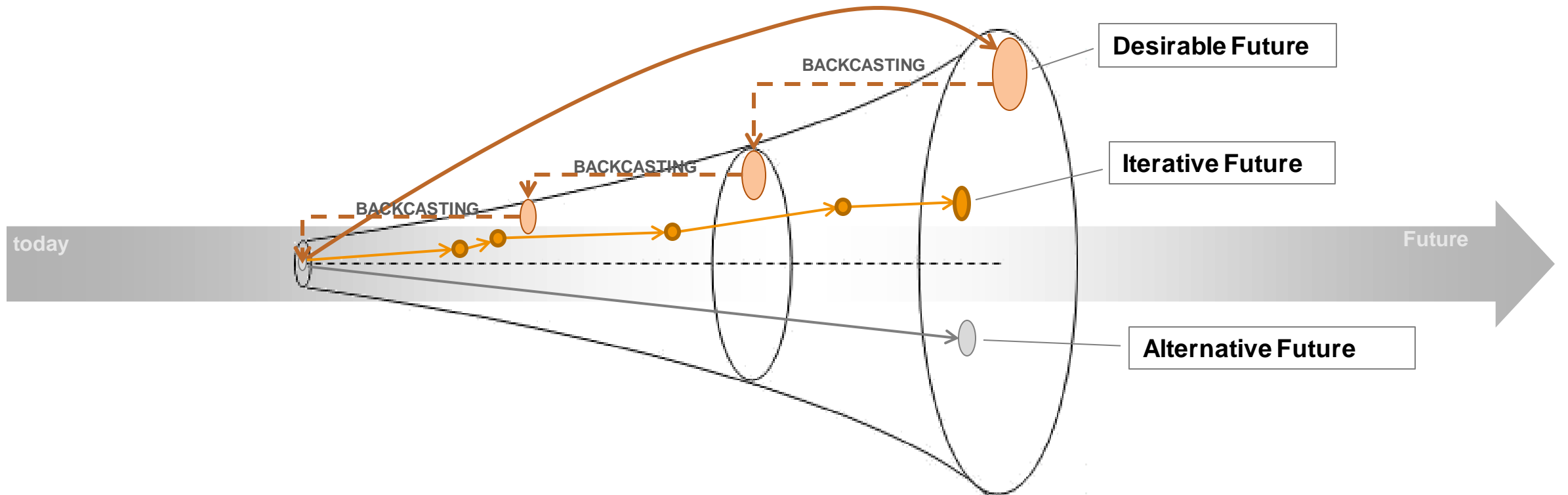
## ACTION FIELD: METHODEN & TOOLS



# INNOVATION 2030

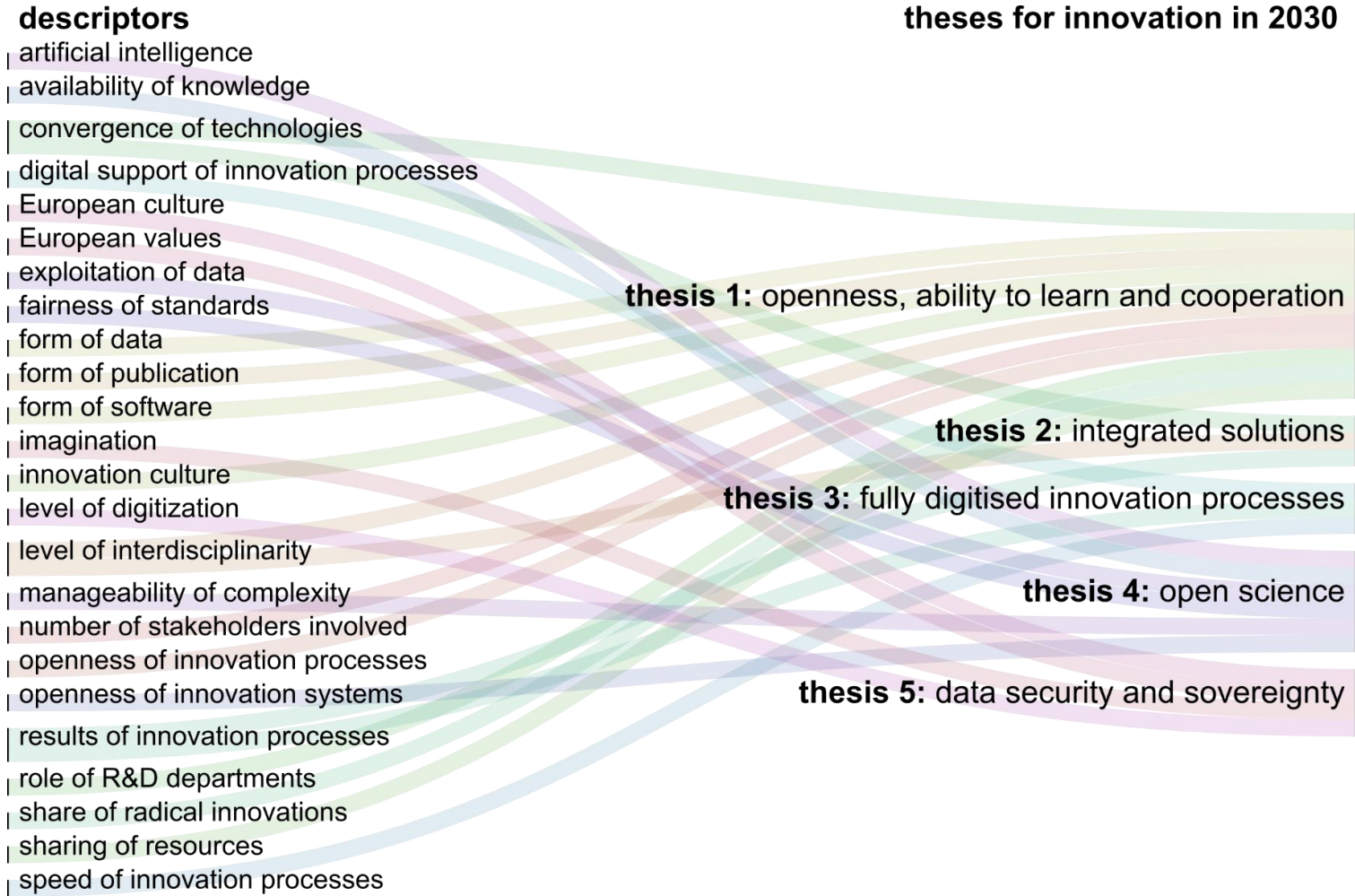
# INDUSTRIAL INNOVATION 2030

## SCOPING FUTURE DYNAMICS



# INDUSTRIAL INNOVATION 2030

## DESCRIPTORS FOR INDUSTRIAL INNOVATION SYSTEMS



# INDUSTRIAL INNOVATION 2030

## Thesis 1

"In 2030, openness, the ability to learn and cooperation will be the guiding principles of innovation."

## Thesis 2

"In 2030, integrated solutions will be the focus of innovation activities."

## Thesis 3

"In 2030, innovation processes will be fully digitised."

## Thesis 4

"In 2030, knowledge will be open to all – the challenge will be to apply it profitably."

## Thesis 5

"In 2030, Europe will enjoy unique global competitive advantages in terms of data security and autonomy."



# CONCLUSION

## SCOPING DYNAMICS IN INDUSTRIAL INNOVATION

### Repeating:

- Open organisational structures (open innovation)
- Breakthrough innovation

### Continuous:

- Increasing complexity

### (relatively) new:

- Digitisation

# DISCUSSION

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<http://www.innovation.fraunhofer.de>

<http://s.fhg.de/innovation2030-en>

<http://s.fhg.de/foresight-fraunhofer-en>

