

Essentials in quality improvement interventions

concepts appraised

by the example of CAUTI prevention

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Crash Introduction on HAI Prevention

- Healthcare-associated infections
 - morbidity
 - healthcare costs
 - mortality
- Evidence-based prevention guidelines
 - broad spectrum of measures
 - nurses / clinicians' knowledge is poor
 - adherence is low
- Quality improvement interventions = solution?

Crash Introduction on Quality Improvement (QI) Interventions

- Definition of QI interventions
 - Versatile method
 - Clustering a variety of interventions; the most important:
 - personnel education
 - care bundles
 - checklists

Intermezzo on **Essentials** of Quality Improvement (QI) Interventions

- **Education**

- Cornerstone of QI
- Insights in...
 - “Why it is important”
 - Rational behind a preventive approach
 - Repetition → awareness (!)
→ attitude

Intermezzo on **Essentials** of Quality Improvement (QI) Interventions

- **Education**

- Cornerstone of QI
- Insights in...
- E-learning
 - Published guidelines do not work
 - Flexible and student centered
 - Benefits the organization

Intermezzo on **Essentials** of Quality Improvement (QI) Interventions

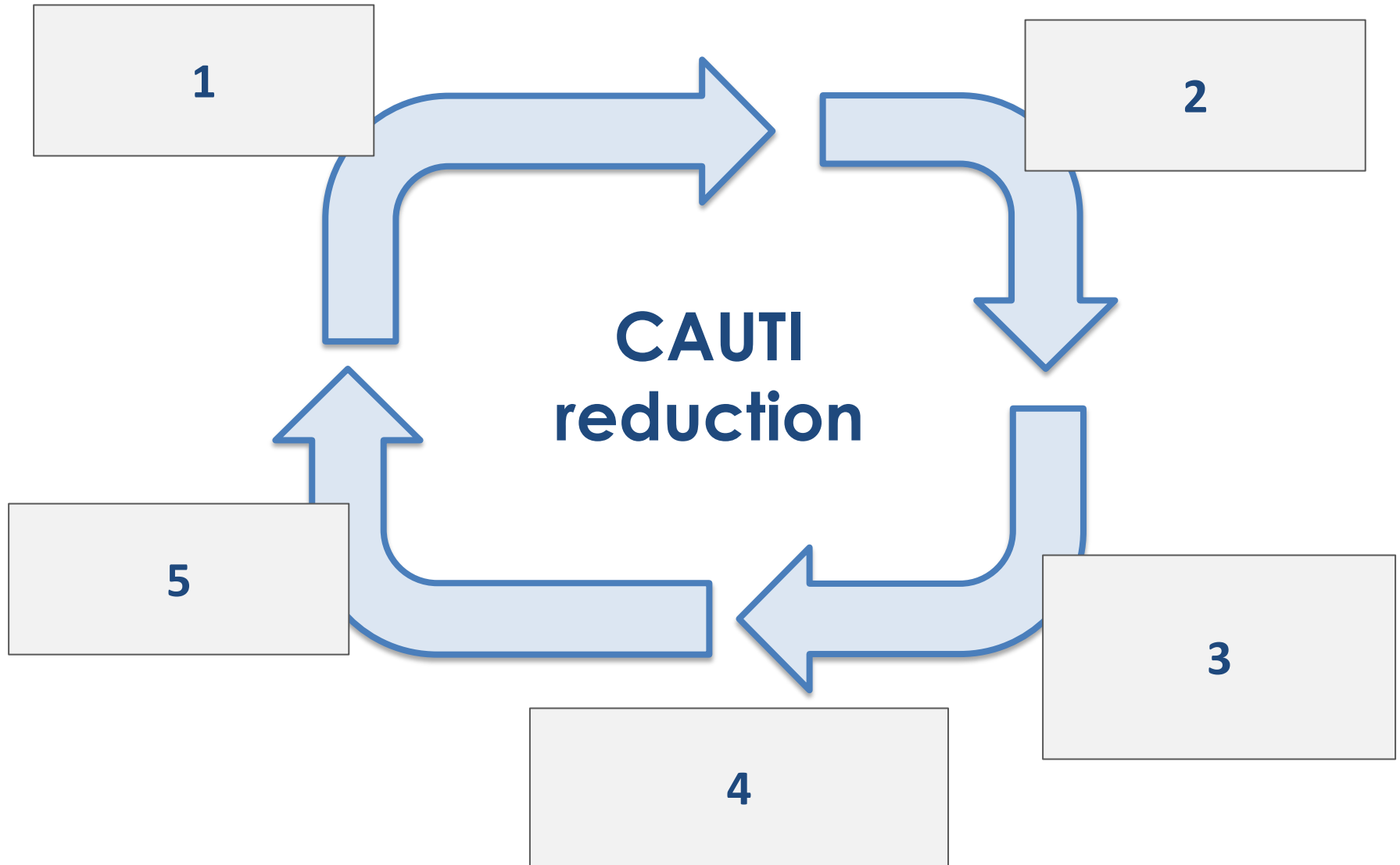
- **Care bundles**
 - Set of 3 to 5 EB-interventions
 - Executed:
 - always (daily, per shift,...)
 - together
 - by everyone
 - Better impact on patient outcomes (compared with separated application)
 - Monitoring of the adherence!

Intermezzo on **Essentials** of Quality Improvement (QI) Interventions

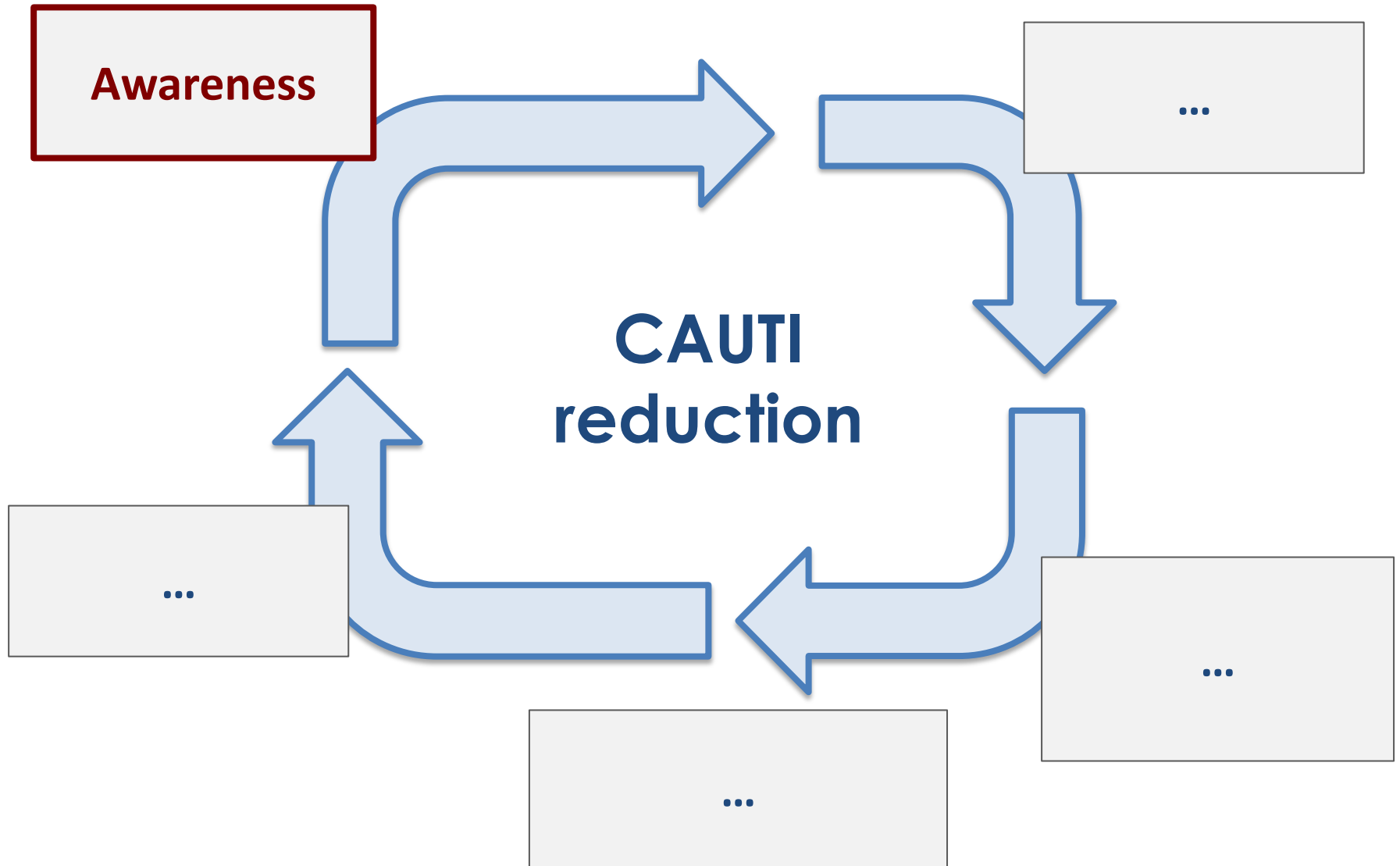
- **Checklists**

- Simple business process improvement tool
- Control of routine tasks to be executed
- No “all or nothing” philosophy
- Not necessarily based on scientific evidence
- Awareness!

Essential steps in a Quality Improvement Project



Essential steps in a Quality Improvement Project



I - Awareness

(!) Absolute condition to motivate the team

- CAUTI = important
 - Frequent
 - Morbidity → costly
 - Mortality...

I - Awareness

(!) Absolute condition to motivate the team

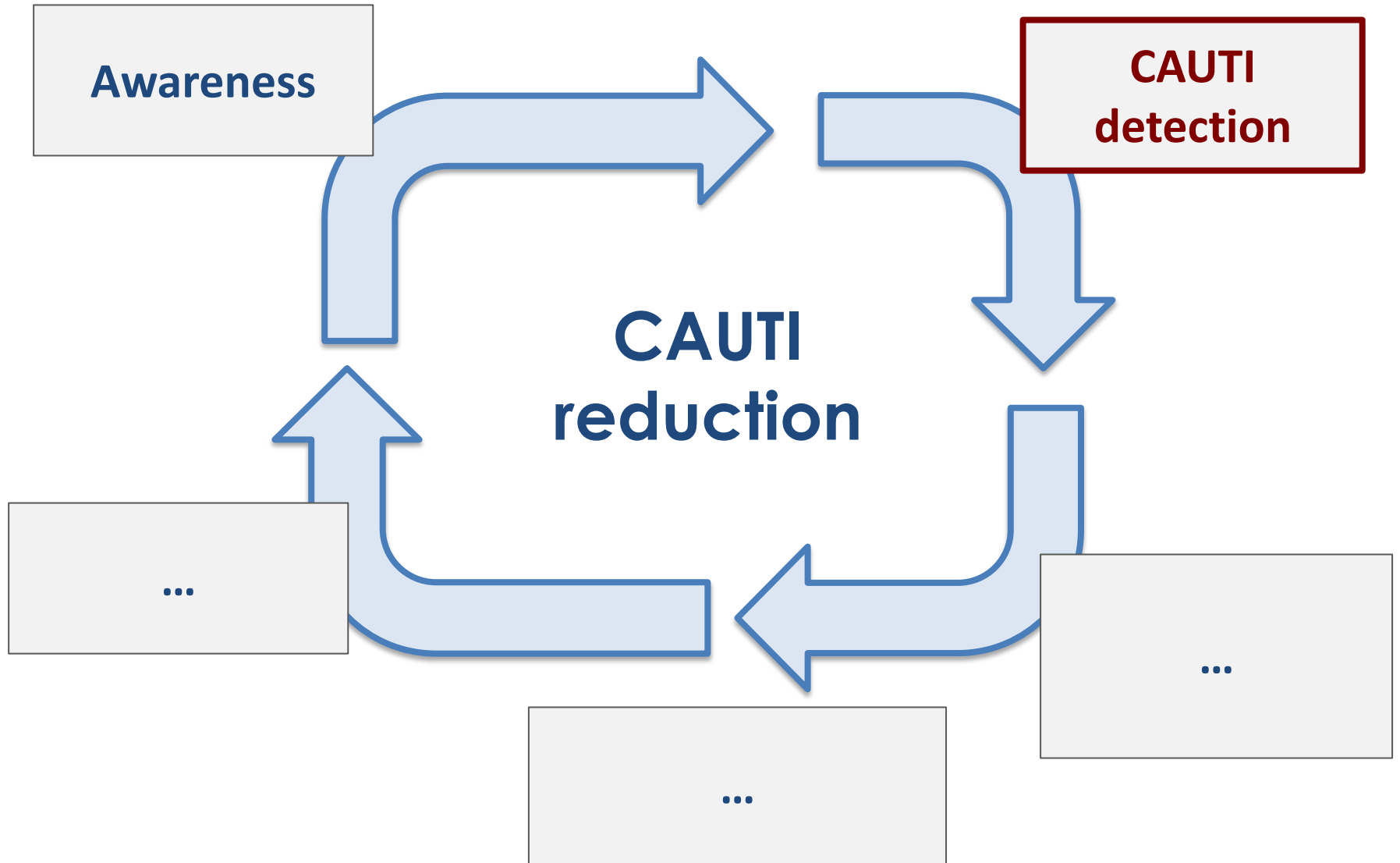
- Pathogenic mechanisms & risk factors
 - Rational for prevention
 - Understanding “why” and “how” prevention works

I - Awareness

(!) Absolute condition to motivate the team

- Preventable! (=key message)
 - Average 17 – 69% can be avoided

Essential steps in a Quality Improvement Project

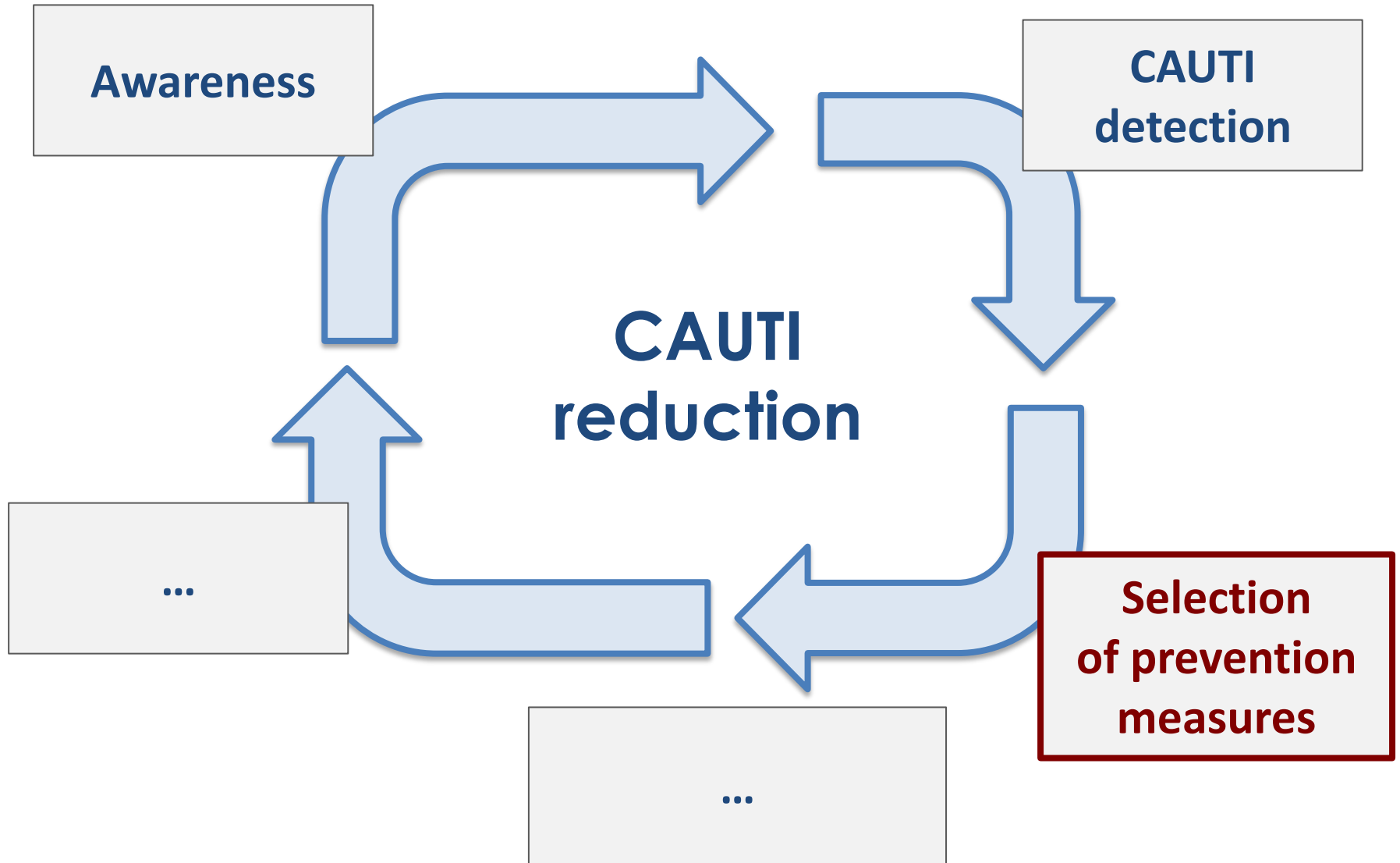


II – CAUTI detection

(!) Essential to convince the team

- Set up a surveillance system
- CAUTI definitions, aim for...
 - Objective criteria
 - Reproducible
 - Universally used
- Methods of surveillance
 - Pro-active screening!

Essential steps in a Quality Improvement Project

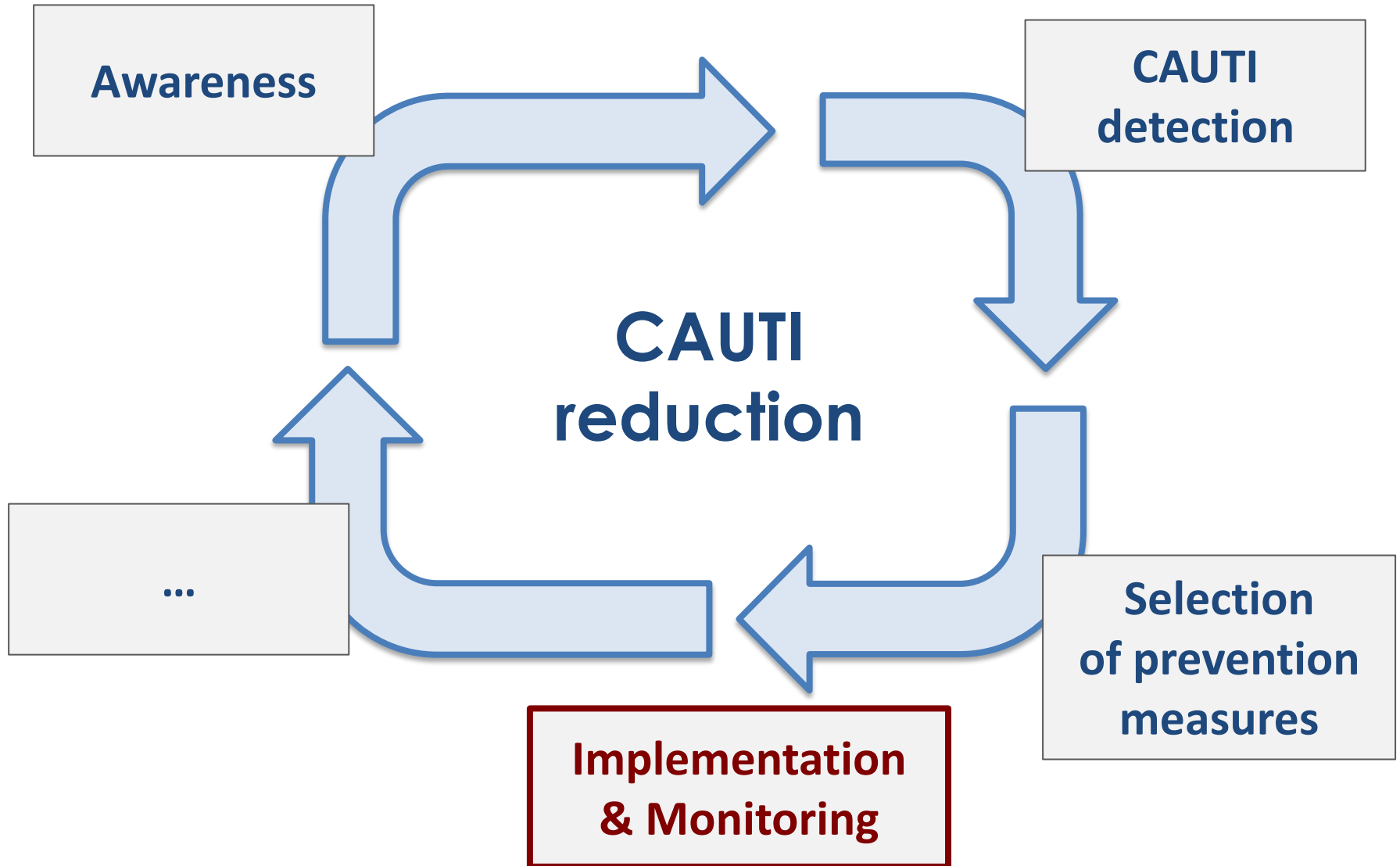


III – Selection of preventive measures

(!) Build your team: participation → consensus

- Select relevant prevention measures, based on...
 - Evidence / pathogenic mechanism
 - Reduction of exposure time
 - Insertion: sterile equipment & aseptic technique
 - Maintenance: closed system & unobstructed flow
 - Local situation
- Consensus among all stakeholders

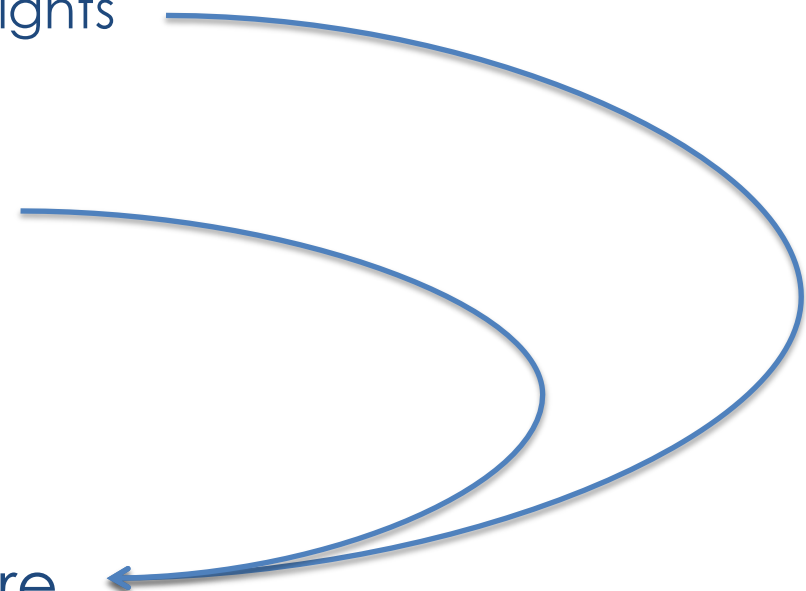
Essential steps in a Quality Improvement Project



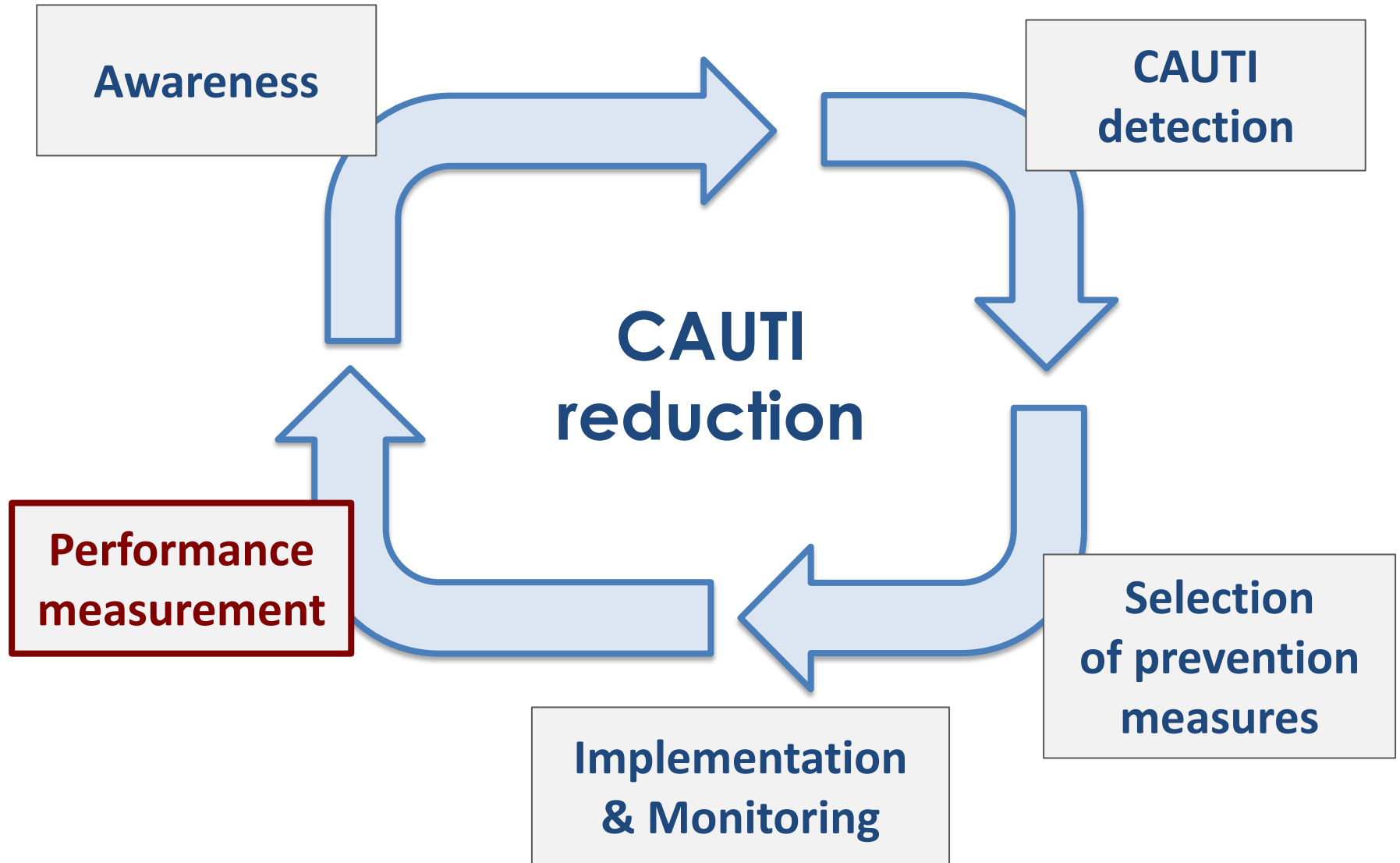
IV - Implementation

(!) Support the team in it's efforts

- Educate
 - Invest in the teams insights
- Practice monitoring
 - Bedside instruction
- Let them feel you care



Essential steps in a Quality Improvement Project



V – Performance measurement

(!) Control & guide the team

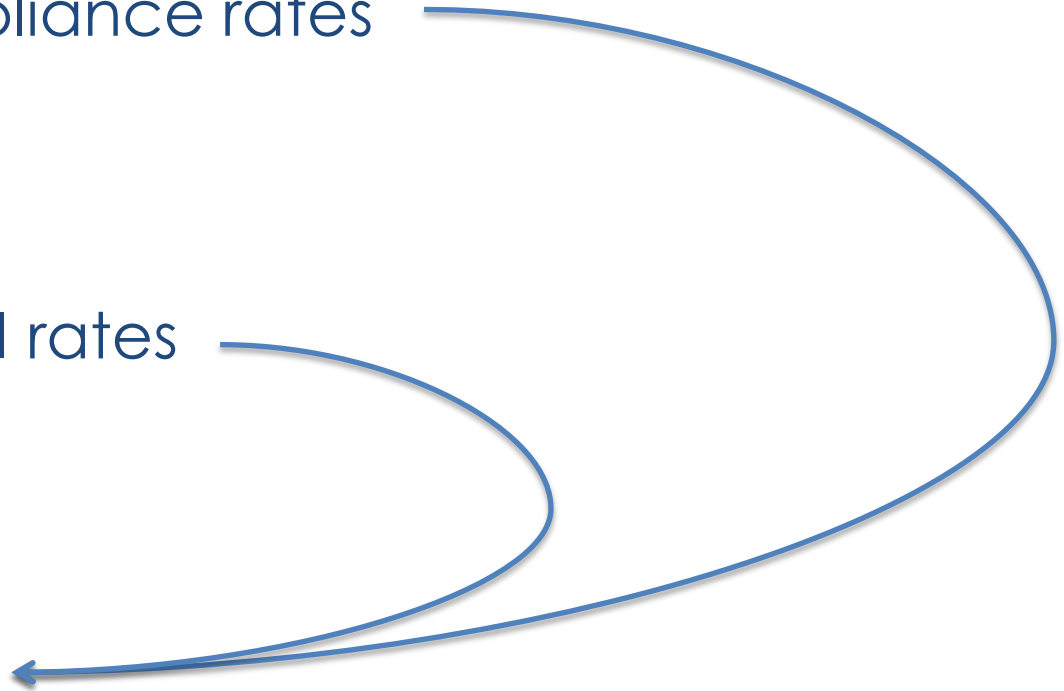
- Process

→ compliance rates

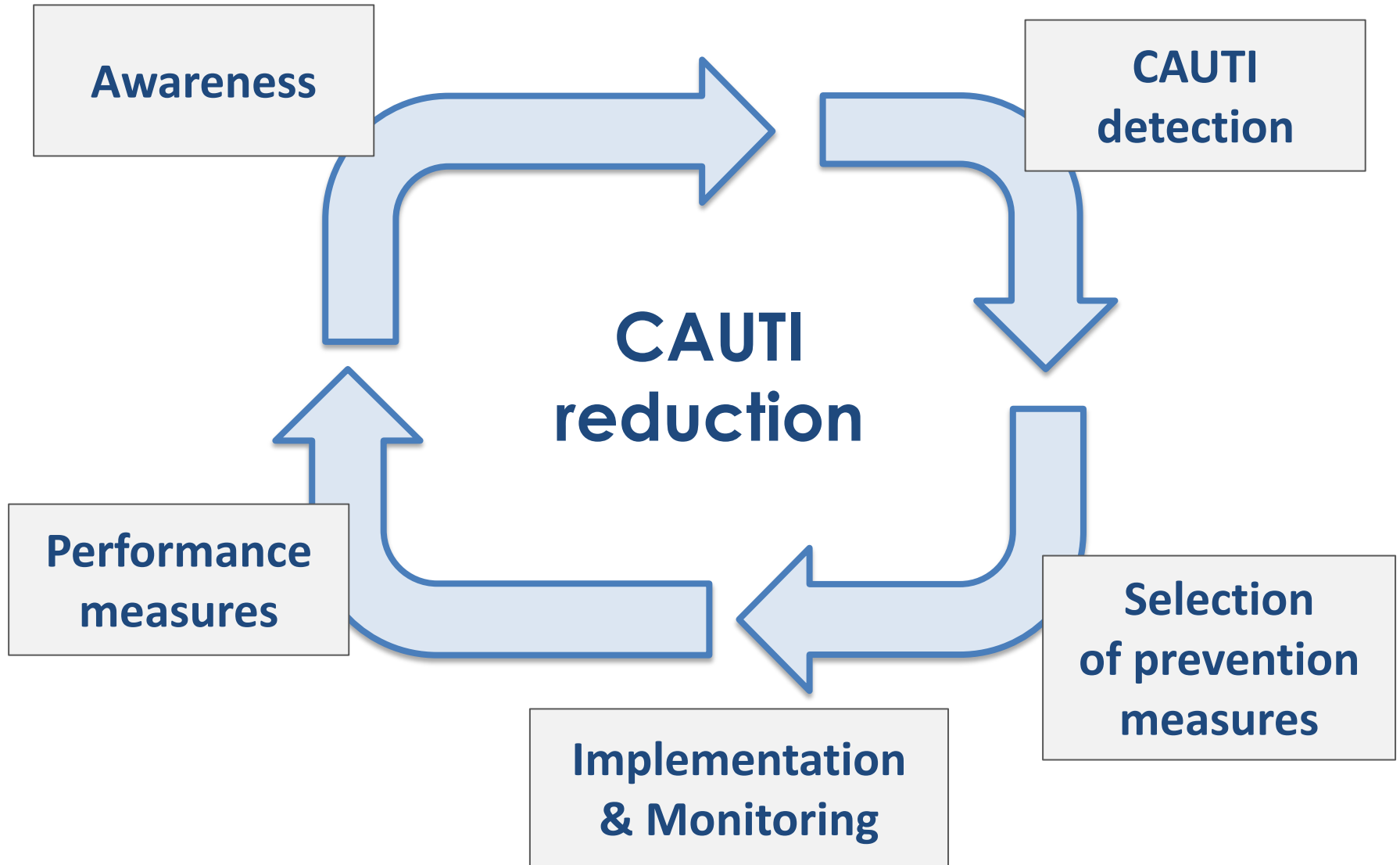
- Outcome

→ CAUTI rates

- Feedback!



Essential steps in a Quality Improvement Project



Conclusion

- 5 essential steps to optimize the outcomes of a quality improvement initiatives
- All about... **team building aspects**: create awareness, reach consensus, educate, instruct, monitor, feedback, ...

Thank you

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