



Good Practices and Pitfalls in using Function Points: The Brazil Experience

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Agenda



- Presentation Objectives
- Brazil and Function Points
- Good Practices and Pitfalls
- Final Thoughts
- Q&A

Presentation Objectives

This presentation has the objective to share with the FP community the Brazil experience in adopting Function Points as a major element in estimating, tracking, costing/pricing and billing. Several good practices will be shared as well as some pitfalls.



North and South America



- Located in South America
- Capital : Brasília
- Language spoken : Portuguese
- Major cities :
 - Rio de Janeiro
 - São Paulo
 - Belo Horizonte
 - Brasília

Brazil and Function Points

- **Middle of 90's** - introduction of Function Points (wave-1):
 - Very few people knew about the technique
 - No/few CFPSs
 - Limited or almost no practical use
 - Some training available
 - A book published based on CPM 4.0
- **Late 90's to 2005** – increased awareness and dissemination (wave-2):
 - Metrics and Function Point companies started
 - BFPUG, manual CFPS exams, increasing number of CFPSs
 - Training available
 - Technique being used for sizing, estimating and initial experience with billing
- **Late 2005 to date** – usage consolidation (wave-3):
 - Automated CFPS exam
 - Brazil with the highest number of CFPSs
 - FP being used in private companies as well as by the government
 - ISMA Cinco
 - Technique being used for sizing, estimating, tracking, **billing**, etc.

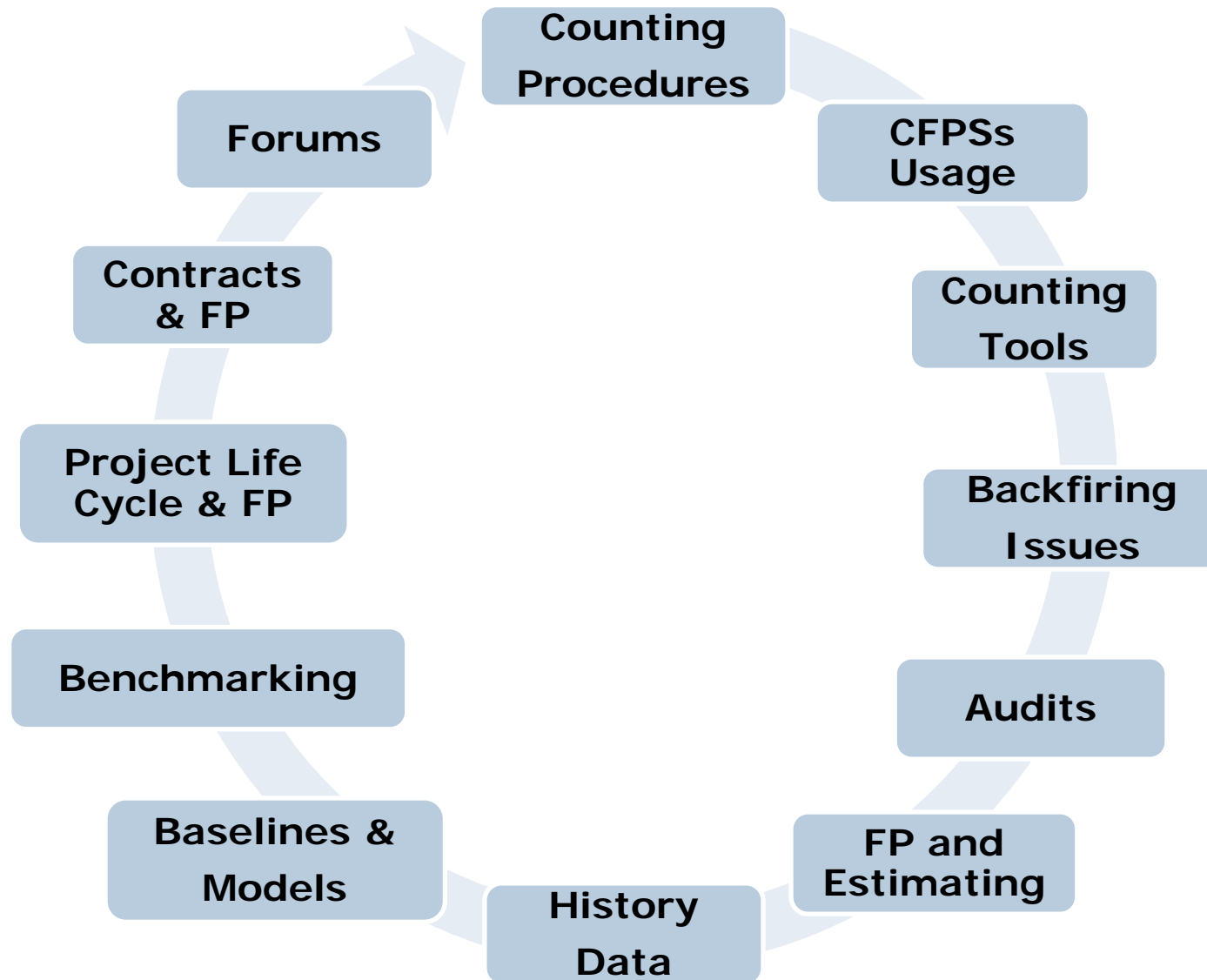


Brazil and IFPUG (2010-2011 Fiscal Year)

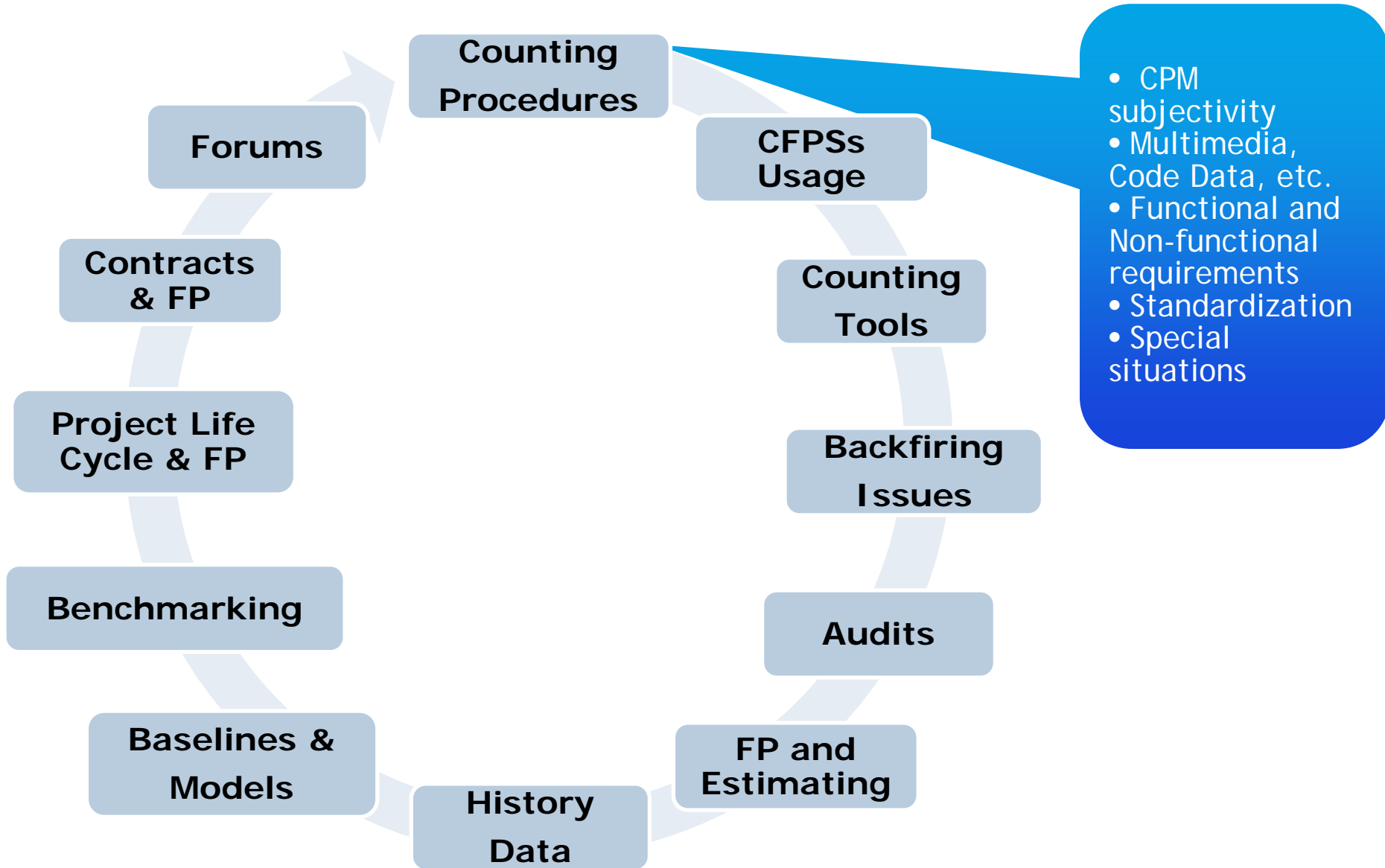
- Highest number of members
- Highest number of CFPSs
- Highest number of automated CFPS exams
- Highest revenue for IFPUG



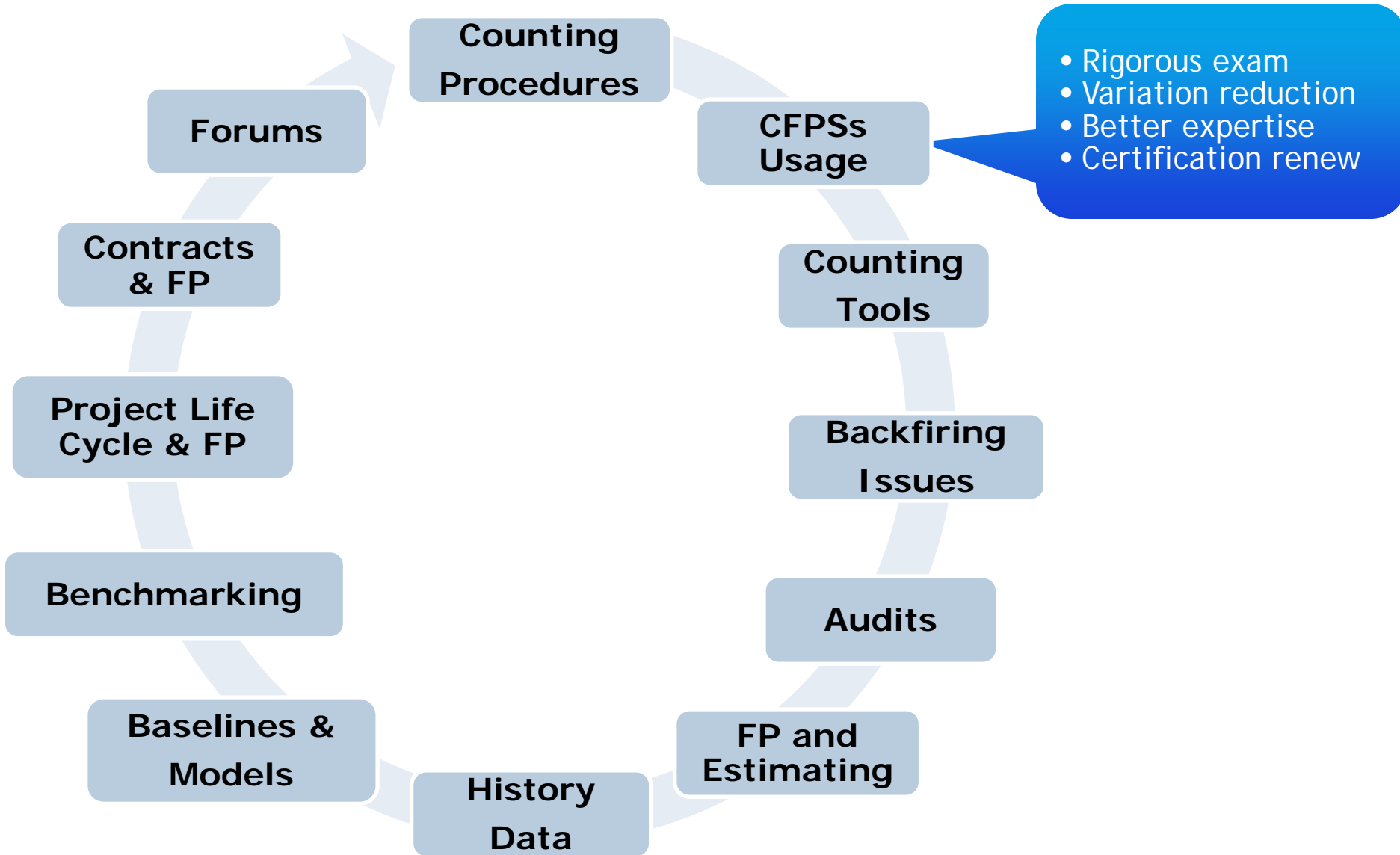
Good Practices and Pitfalls



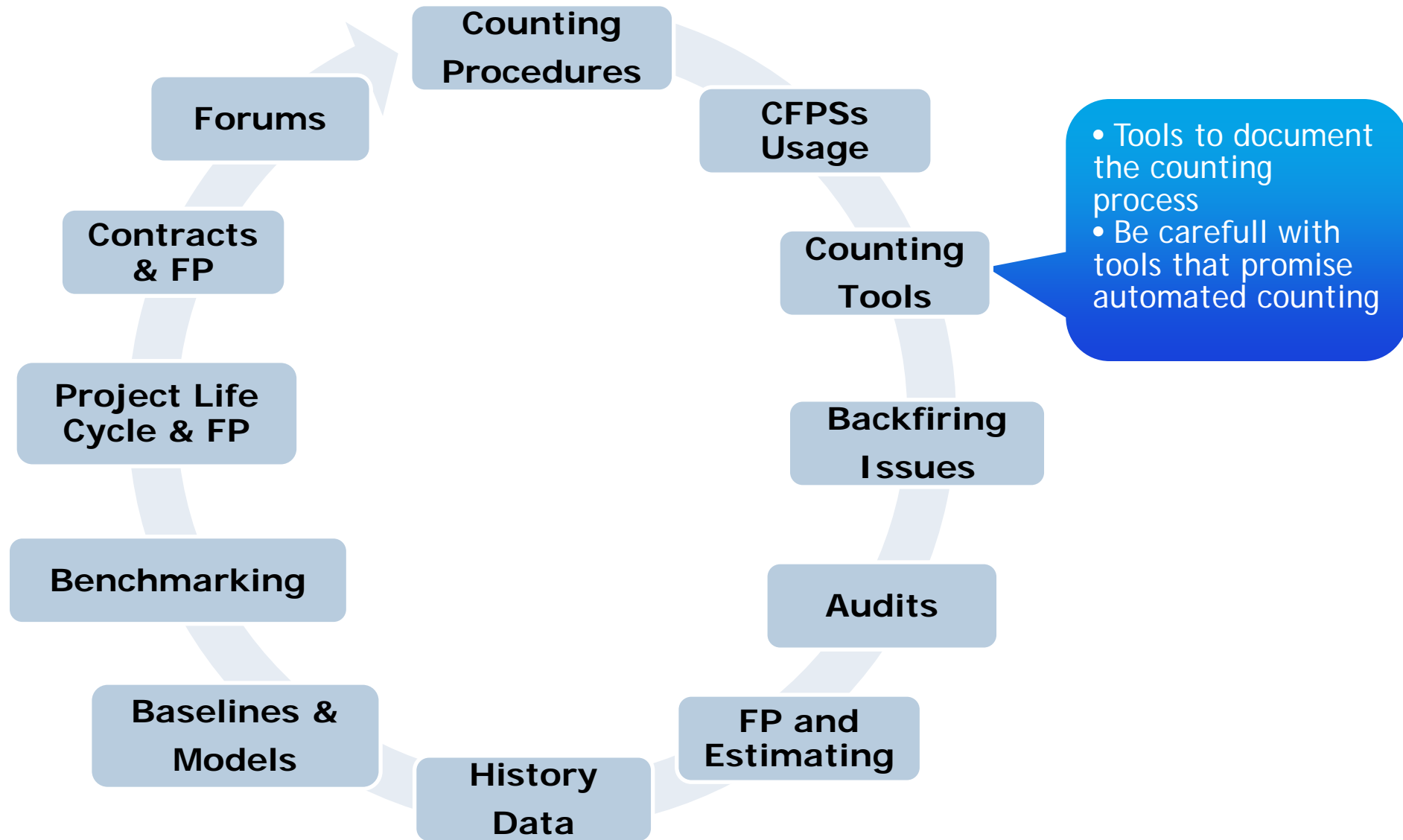
Good Practices and Pitfalls



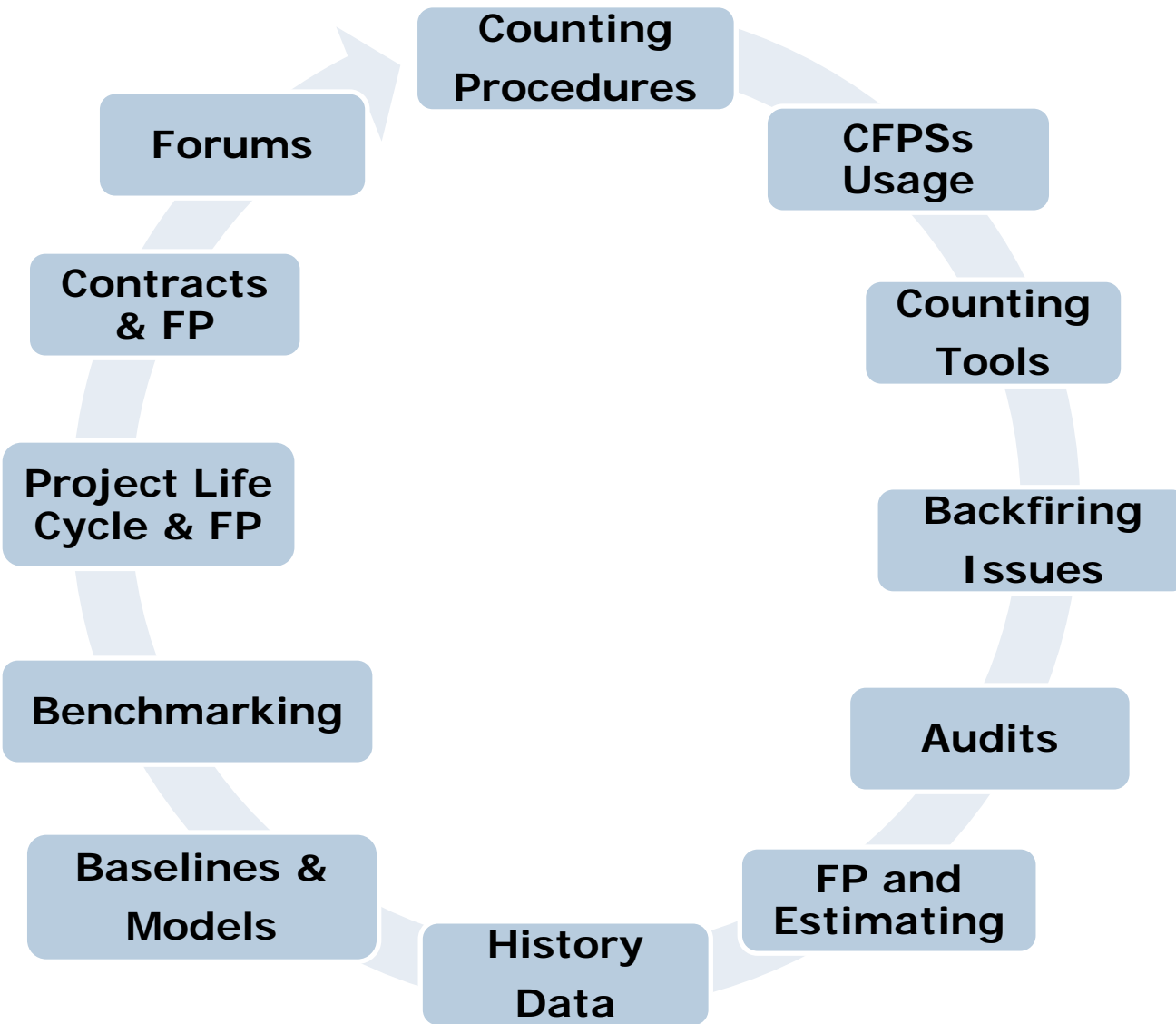
Good Practices and Pitfalls



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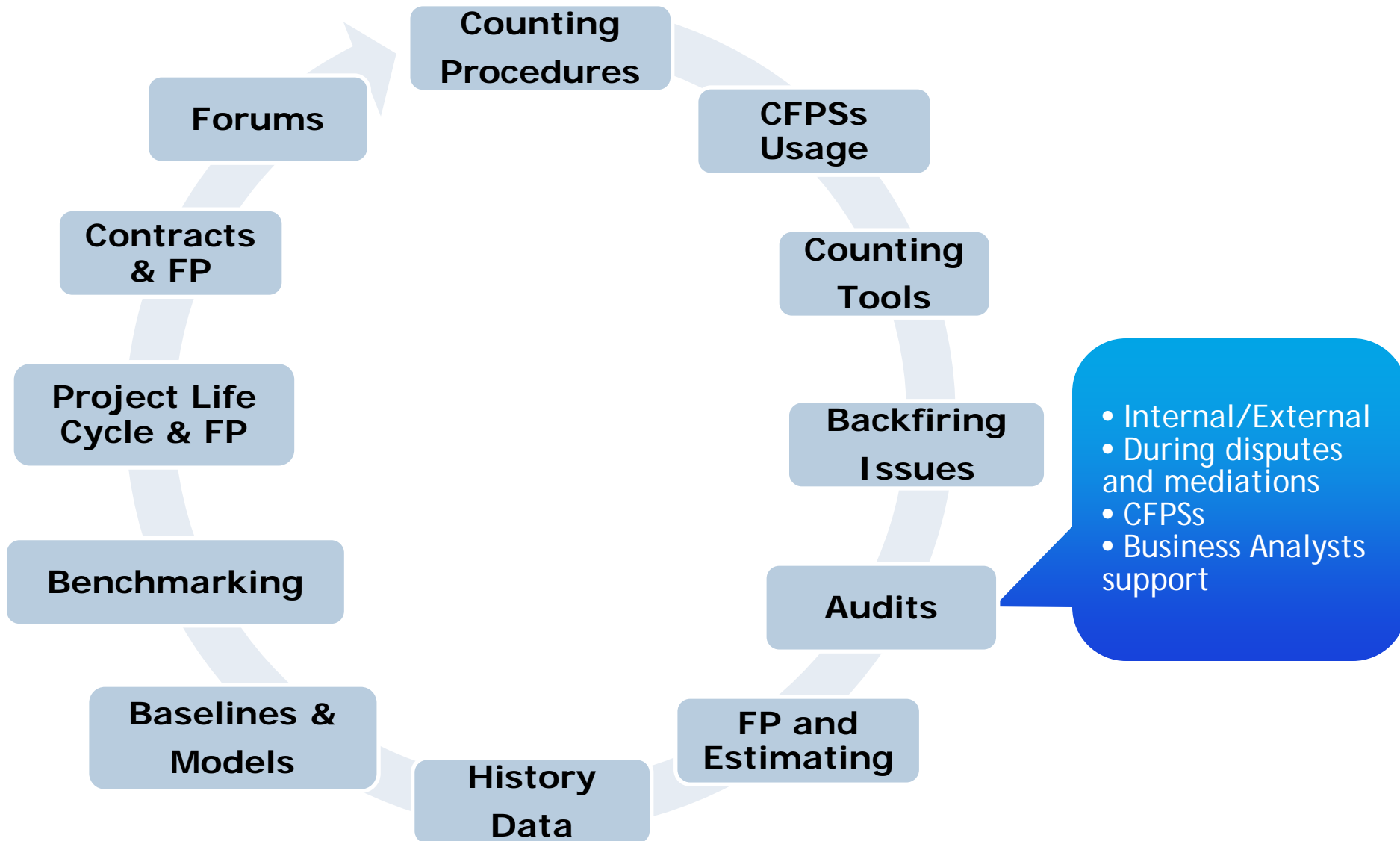
• “Be carefull you maybe in trouble “

“The range of statements per Function Points is quite broad: several hundred percent in some cases because variations in individual programming styles and unknown causes”

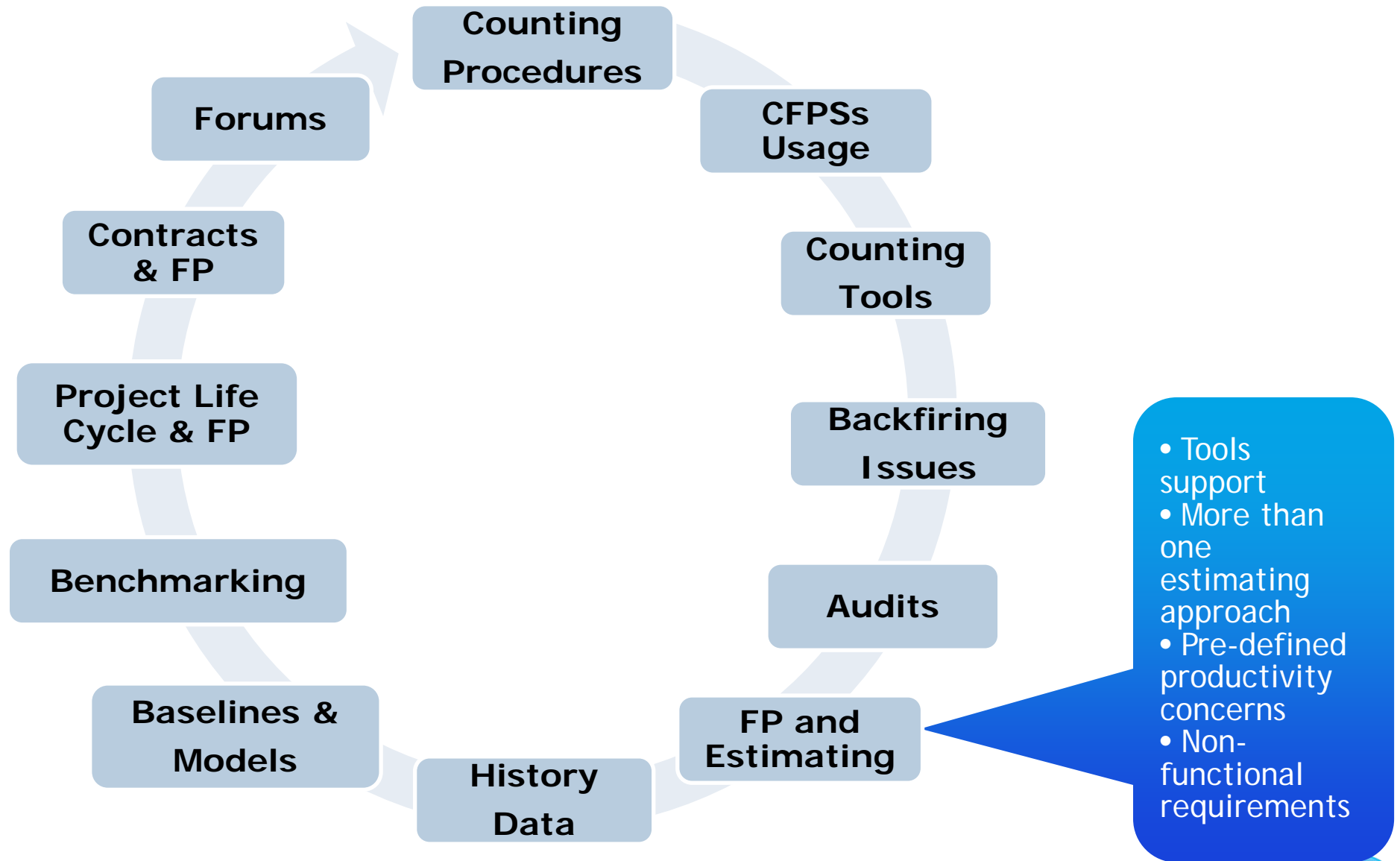
Applied Software Management
Caper Jones – 1997



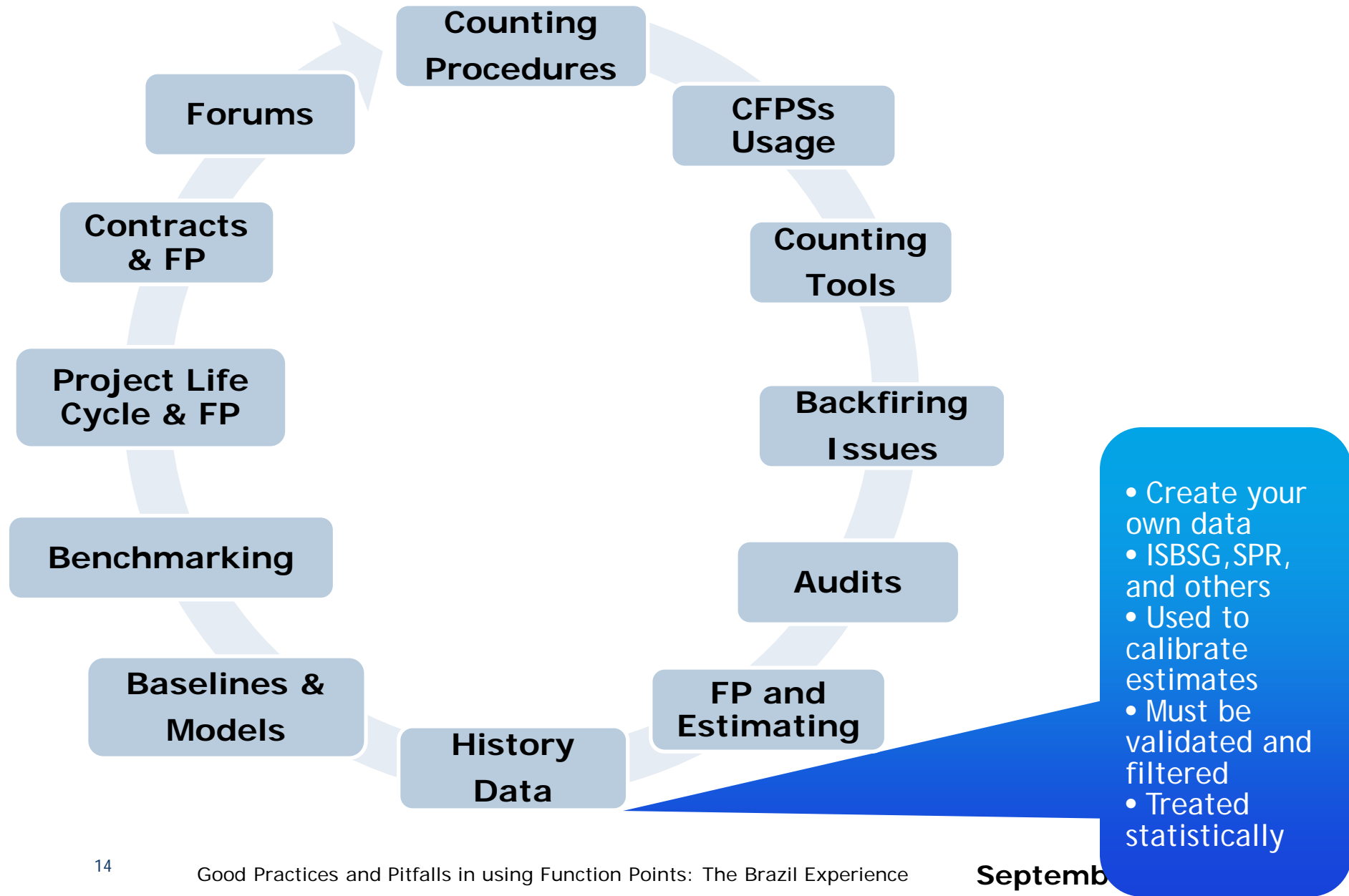
Good Practices and Pitfalls



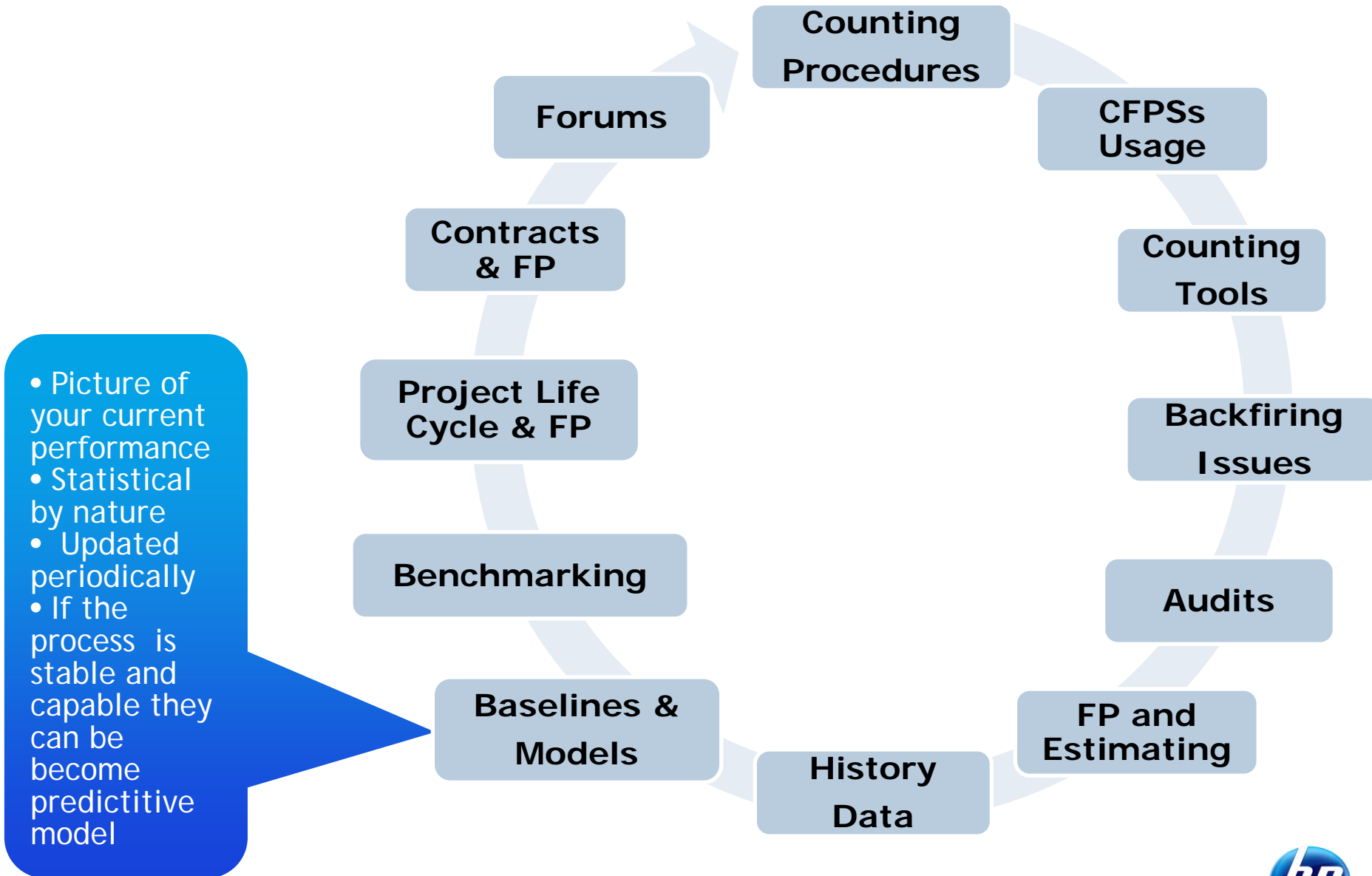
Good Practices and Pitfalls



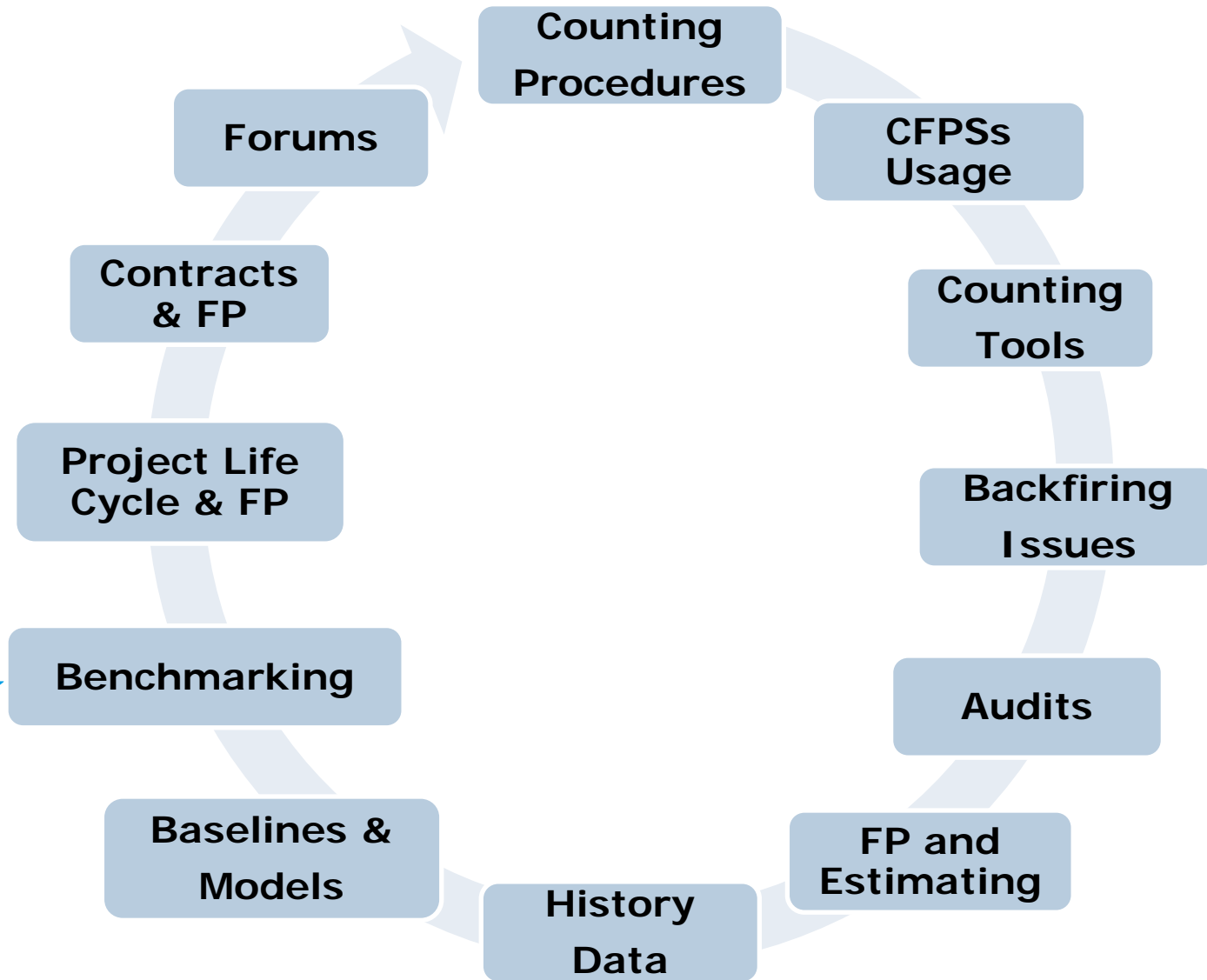
Good Practices and Pitfalls



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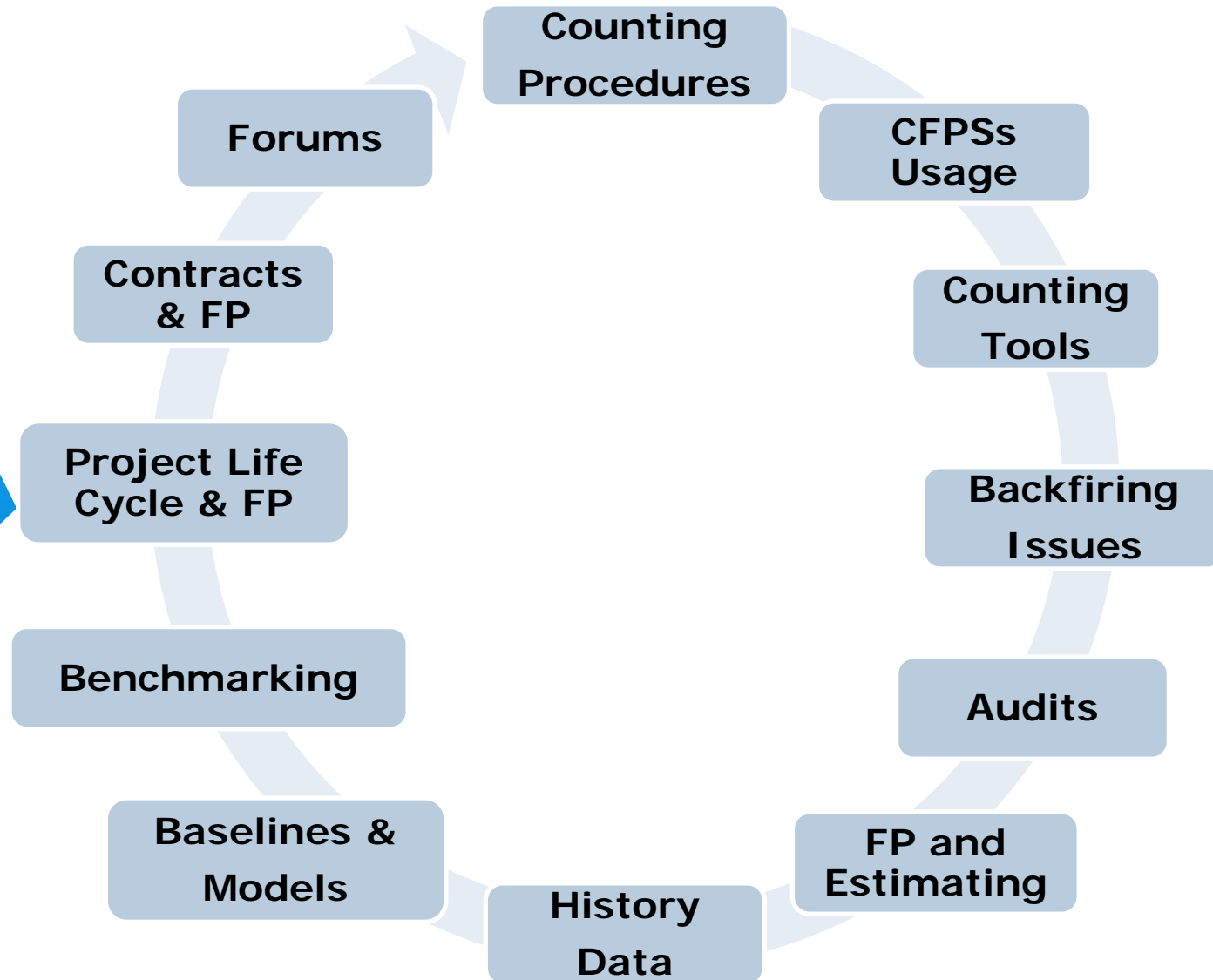


- Should be conducted periodically
- Internal and External
- Defined process
- Input for improvement activities

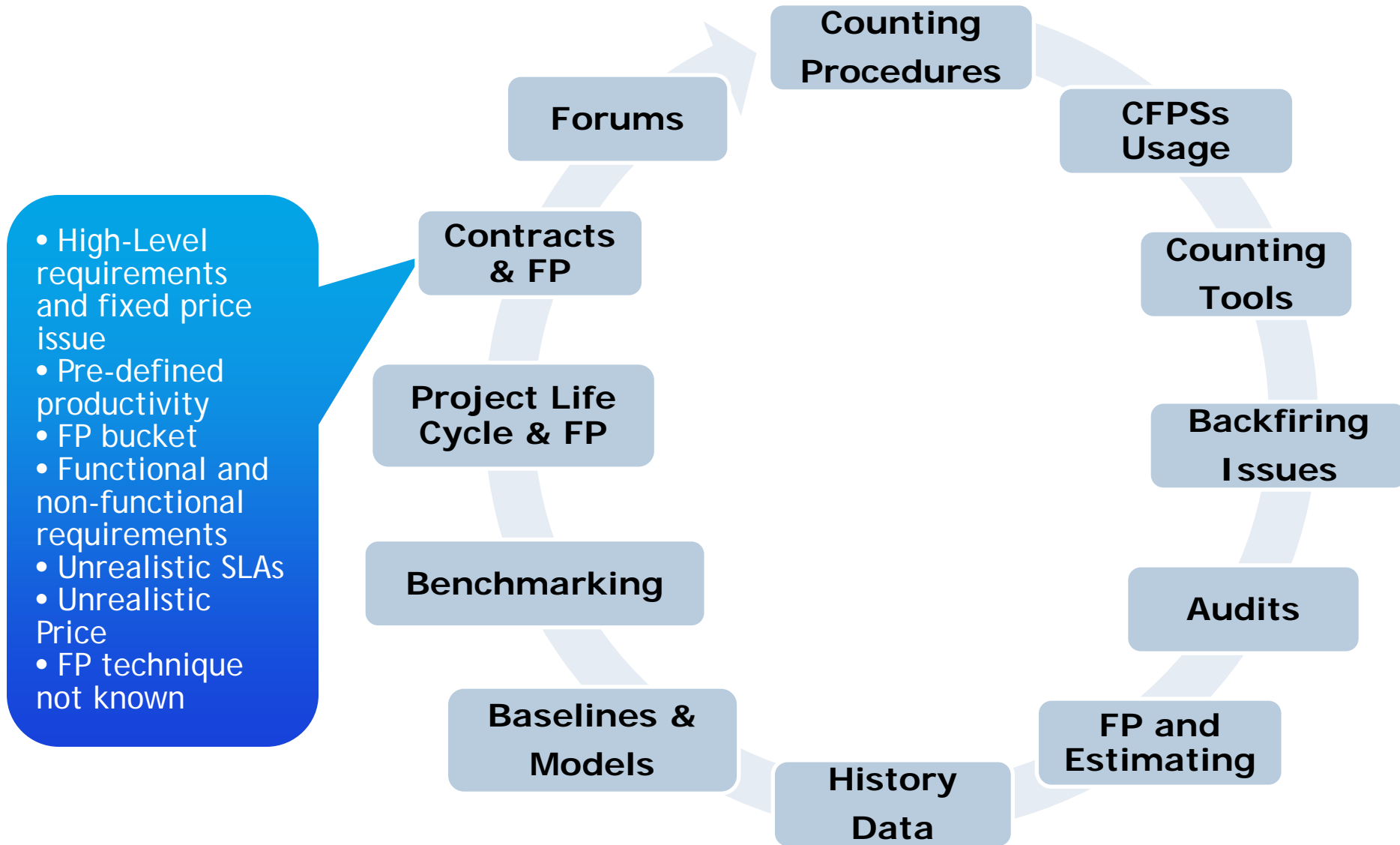


Good Practices and Pitfalls

- FP not only for sizing
- Requirements validation
- Estimating
- Costing, Pricing and Billing
- Tracking (EVA)
- Change control
- Portfolio analysis
- Performance analysis (Productivity, Quality, requirements volatility, etc.)

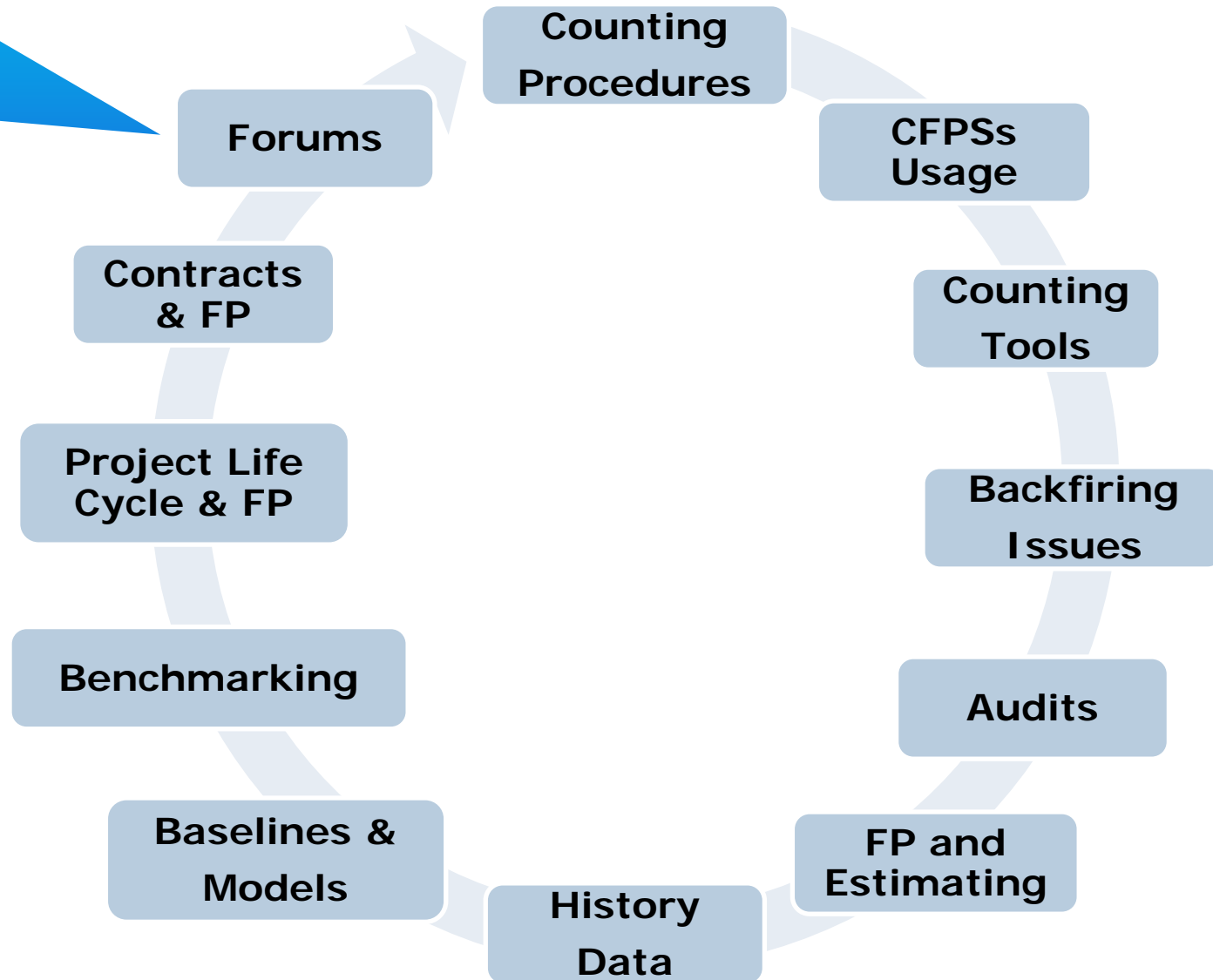


Good Practices and Pitfalls



Good Practices and Pitfalls

- Participation is very important
- BFPUG
- IFPUG Bulletin Board
- Experts and beginners
- Conferences



- It has not been an easy journey 😊
- Lots of mistakes were/are being made BUT people and companies are learning from their mistakes and are improving and moving forward.
- FPA is not perfect BUT can be used very effectively.
- FP and metrics companies as well as BFPUG forum are important mechanisms to educate people and customers.

Thank You !!!

Q&A

