

A scenario-based comparison of underground coal mine proximity detection systems

André De Kock

Simtars





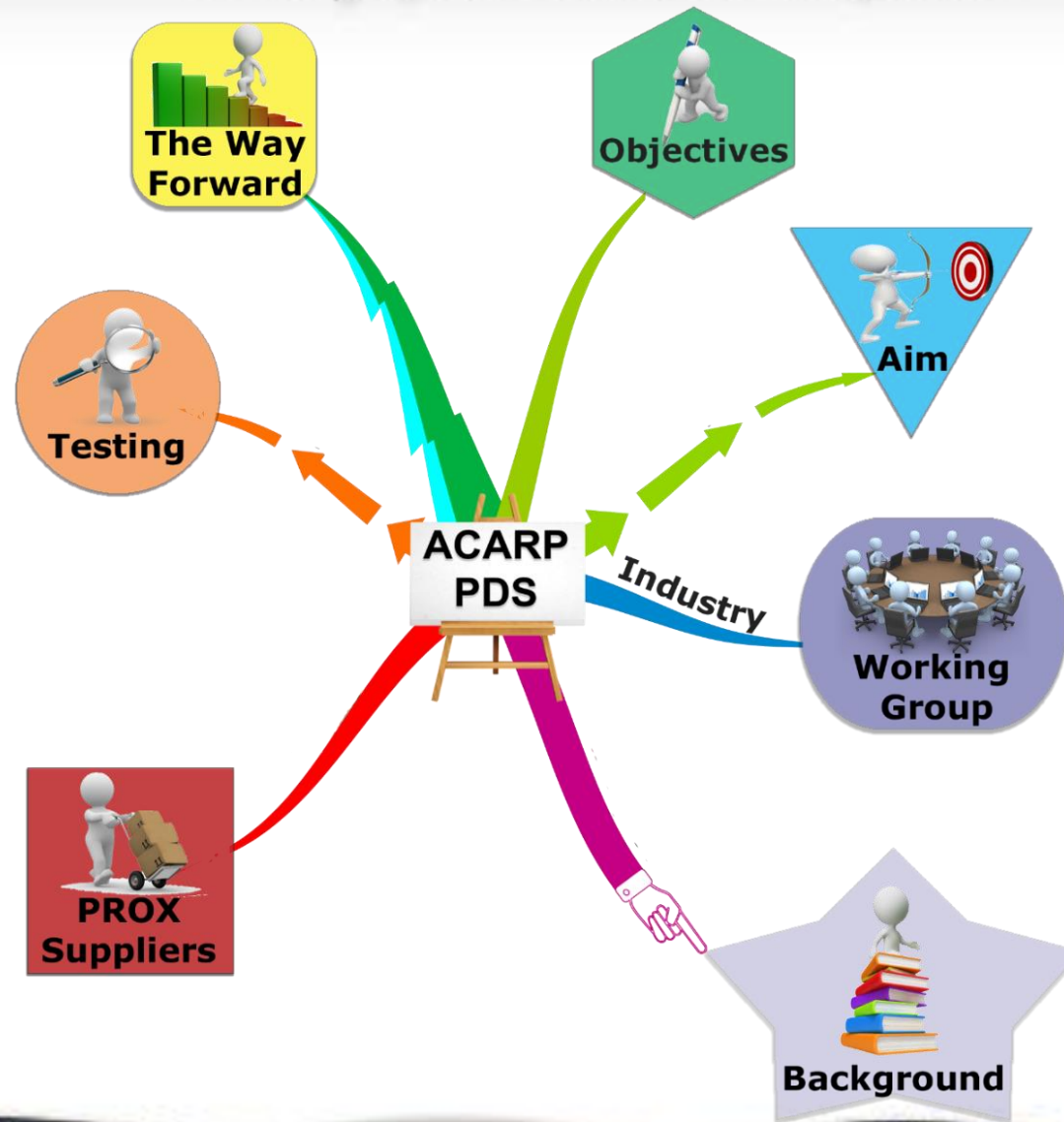
A Past forgotten is a future repeated

ACARP C24010





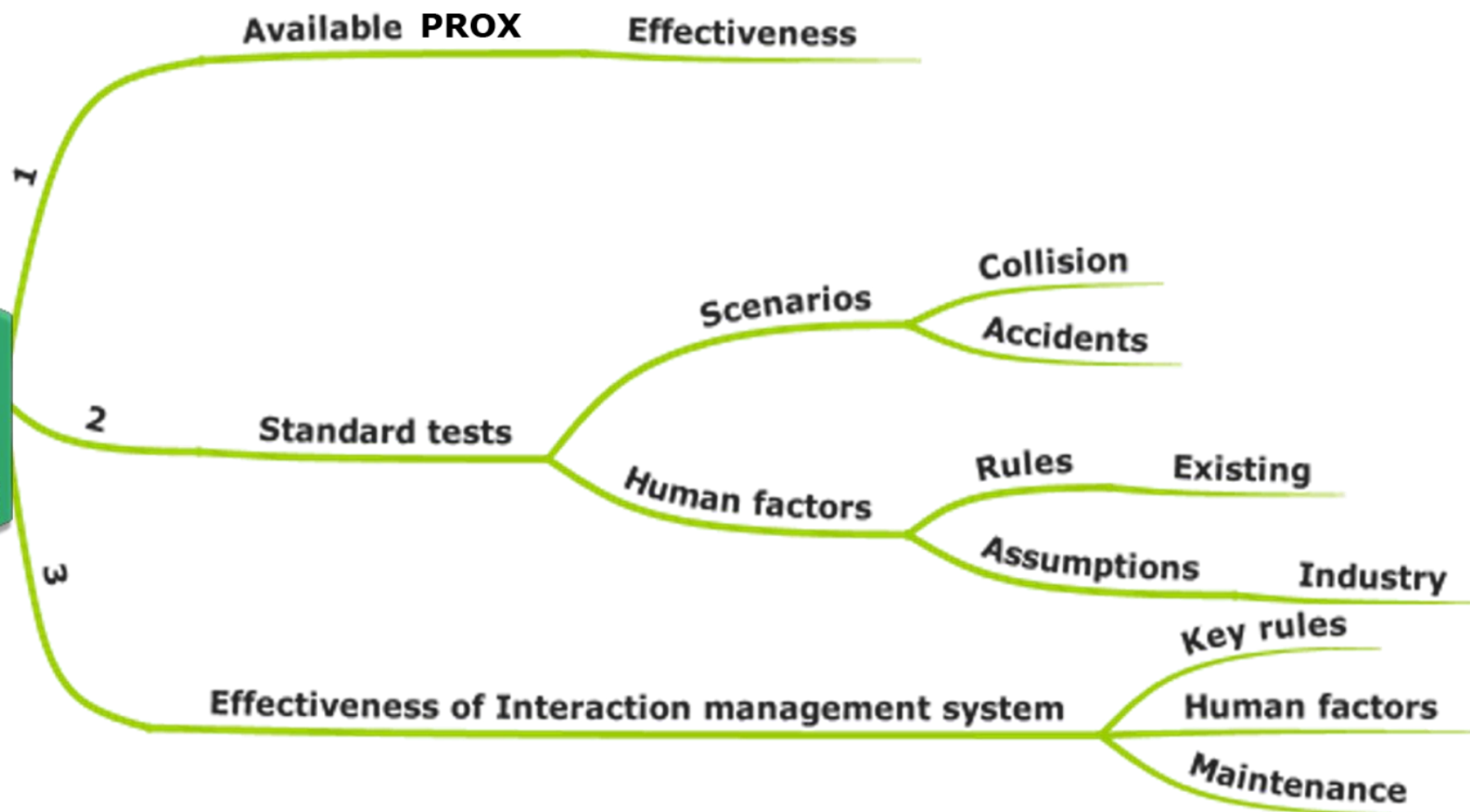
A Past forgotten is a future repeated





A Past forgotten is a future repeated

Objectives





A Past forgotten is a future repeated



V2P

Effectiveness



**Underground
Coal**

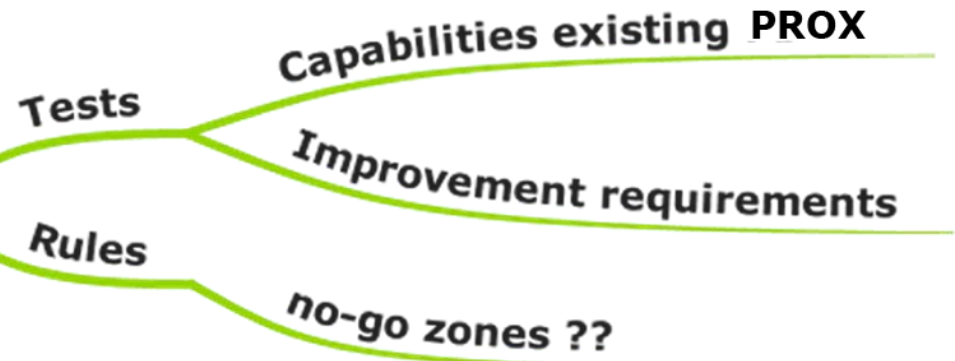




A Past forgotten is a future repeated



Seek most prominent collision scenarios





A Past forgotten is a future repeated

**ACARP
C24010**

Industry



**Working
Group**





A Past forgotten is a future repeated



Industry



Anglo
(Glenn Owens
Chris Doran)

Peabody
(Shane Apps)

Glencore
(Brad Lucke)

**Rio
Tinto**
Kane Usser

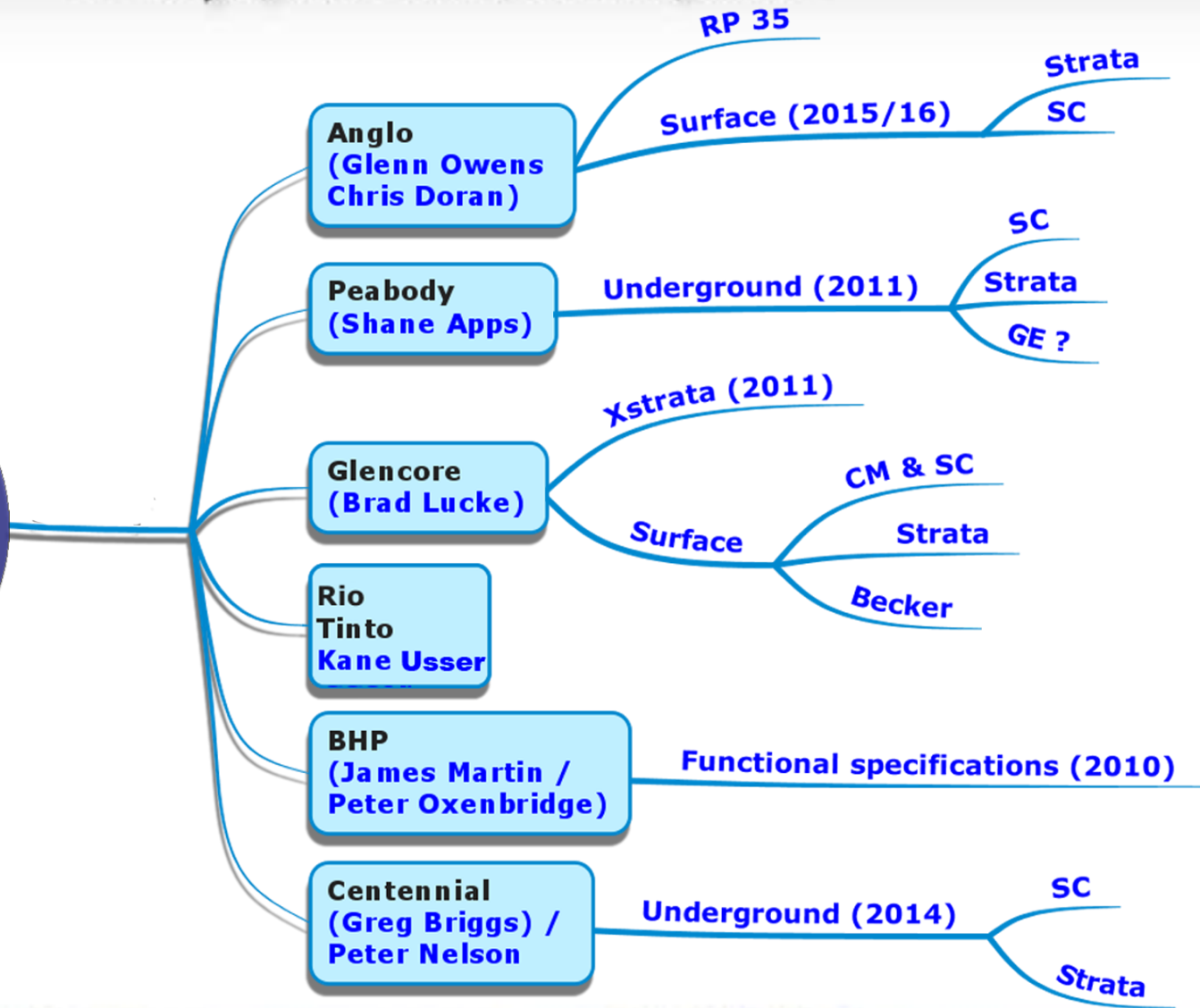
BHP
(James Martin /
Peter Oxenbridge)

Centennial
(Greg Briggs) /
Peter Nelson





A Past forgotten is a future repeated





A Past forgotten is a future repeated

**ACARP
C24010**



**Accident Data
2000 - June 2015**



Accidents

Safety alerts

Safety bulletins

FatalGrams

Statistics

USA

AUS

QLD

NSW





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Mastermyne Tests

Results

Site

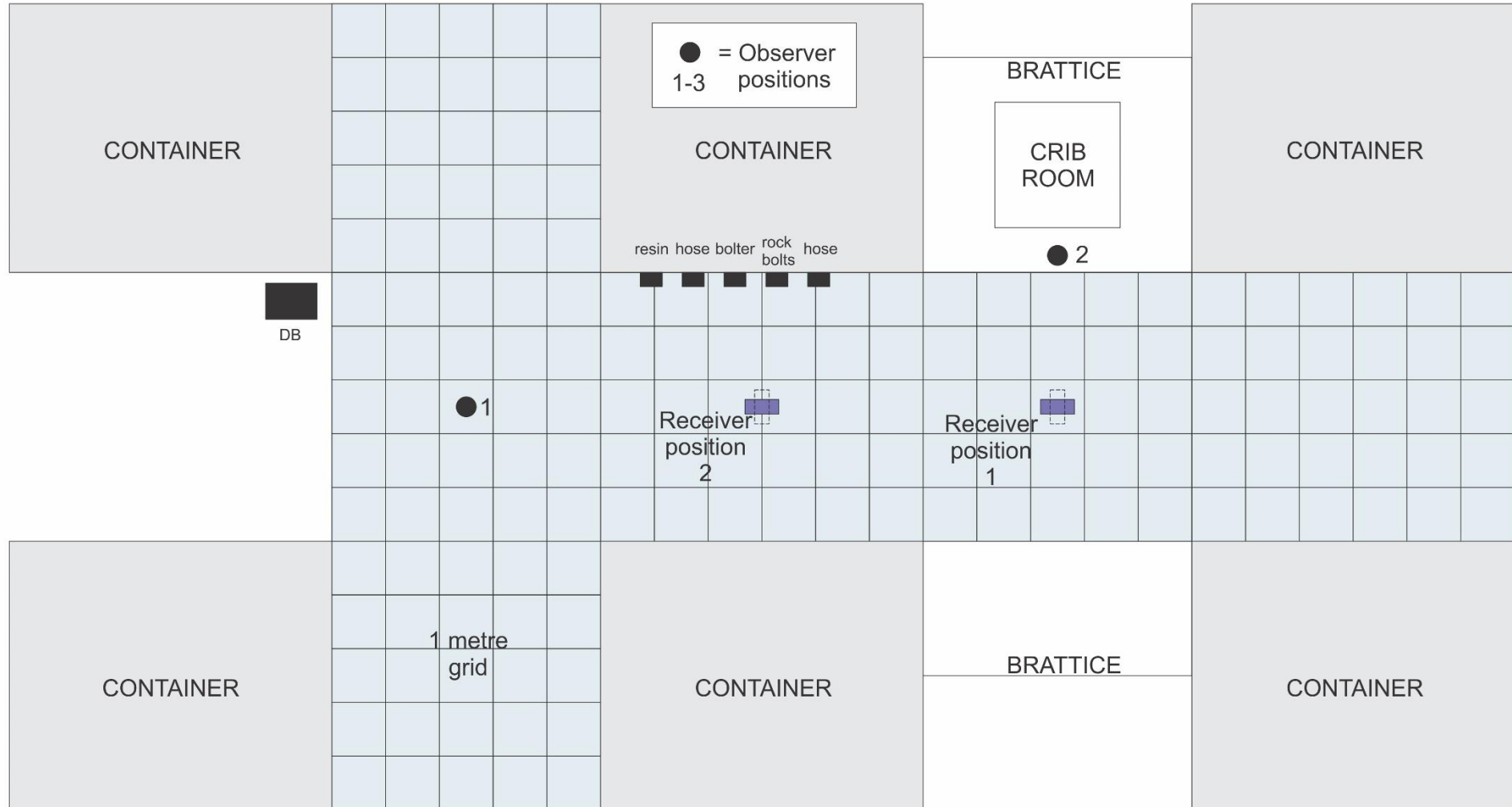
1

2



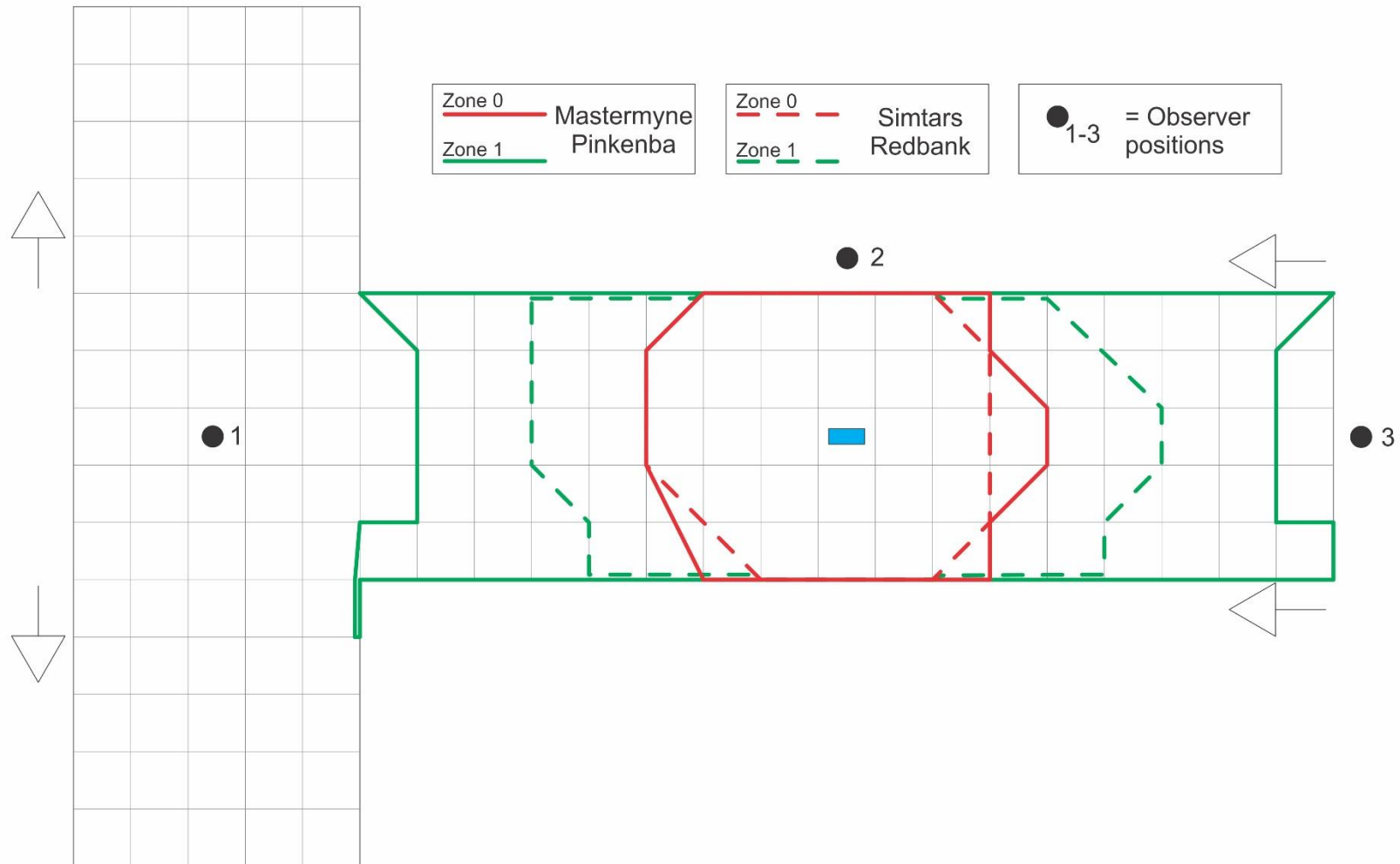


A Past forgotten is a future repeated



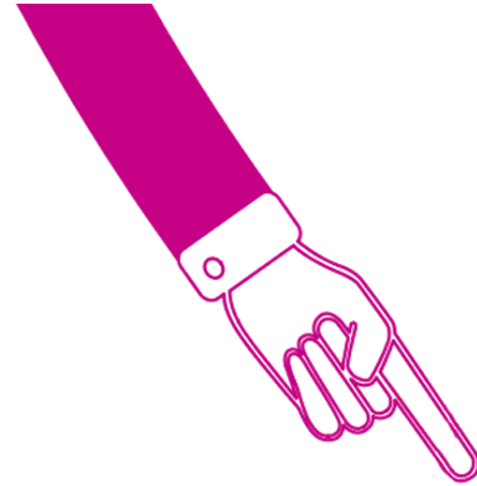


A Past forgotten is a future repeated





A Past forgotten is a Future repeated



2015  USA

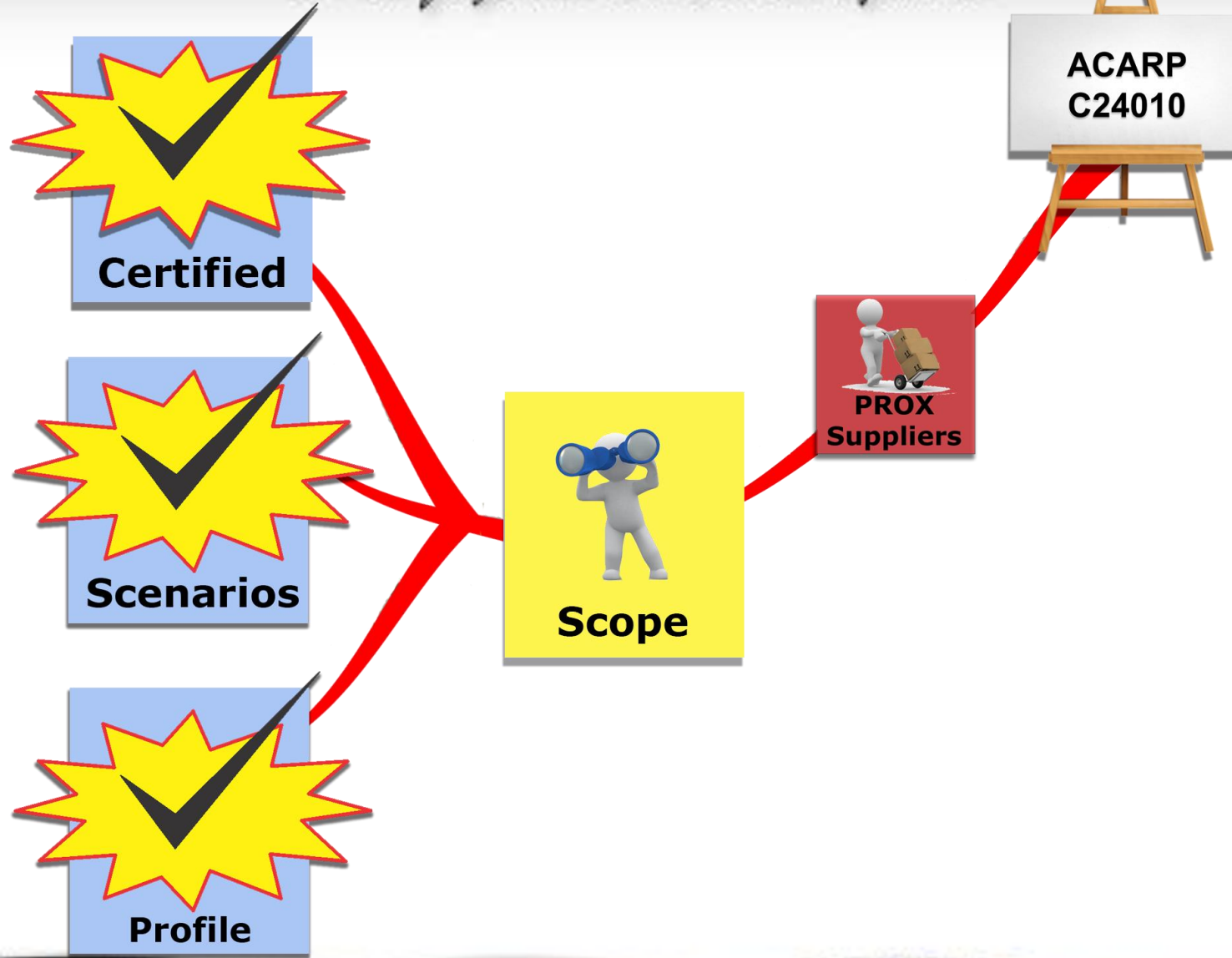
2015  RSA

Legislated



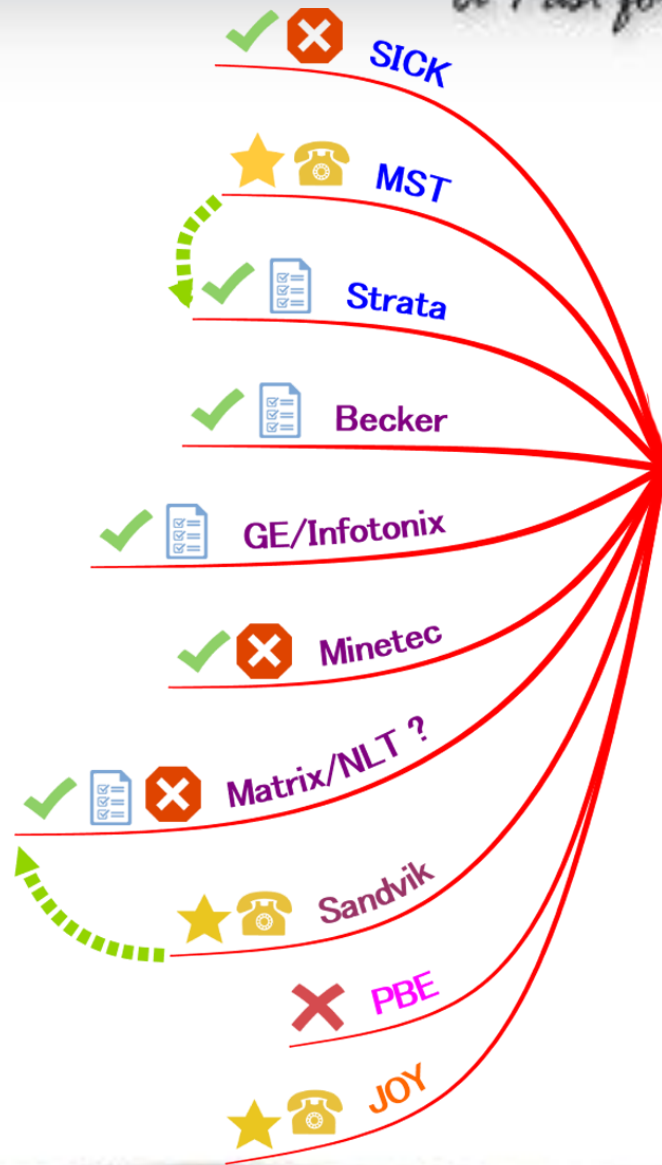


A Past forgotten is a future repeated



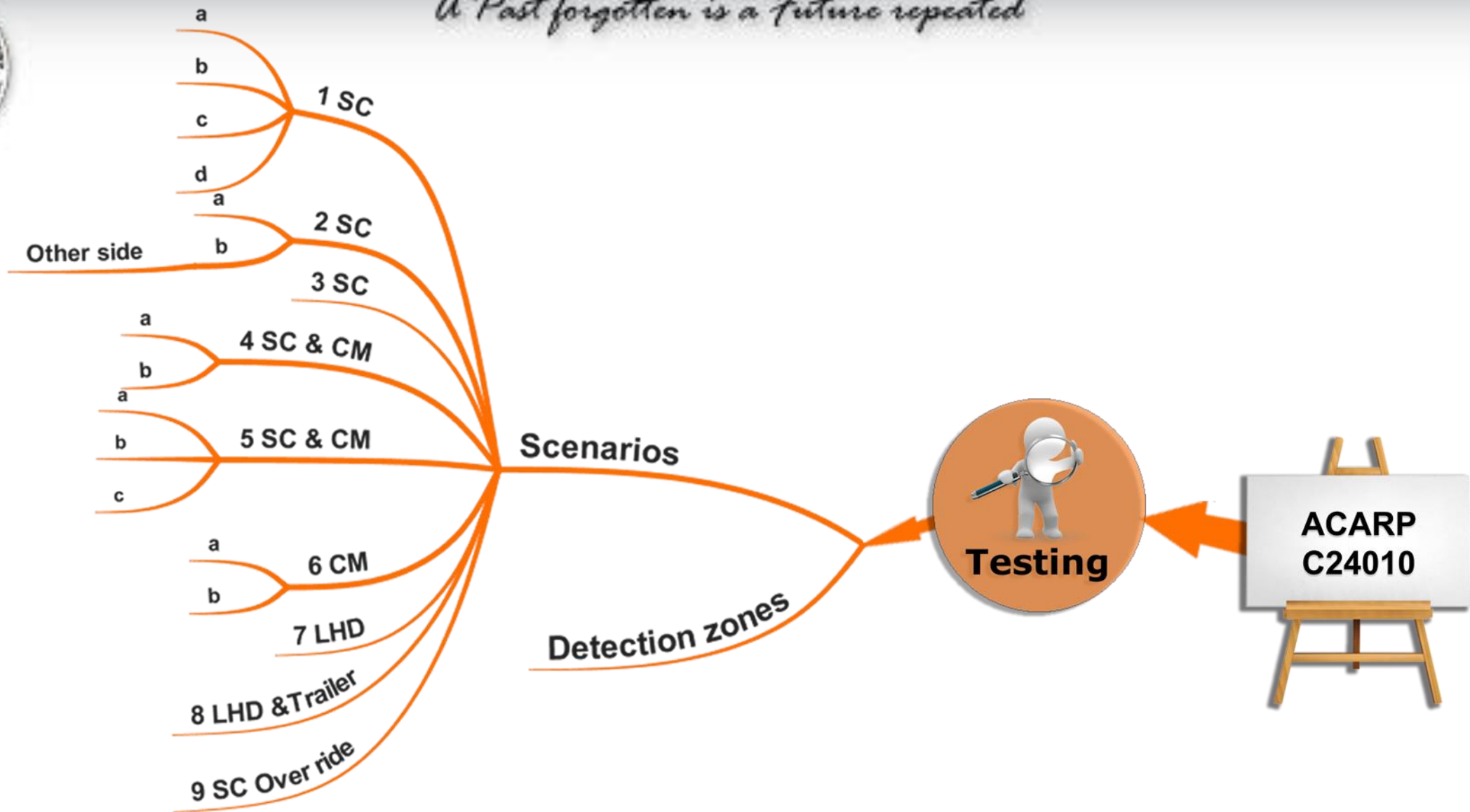


A Past forgotten is a future repeated



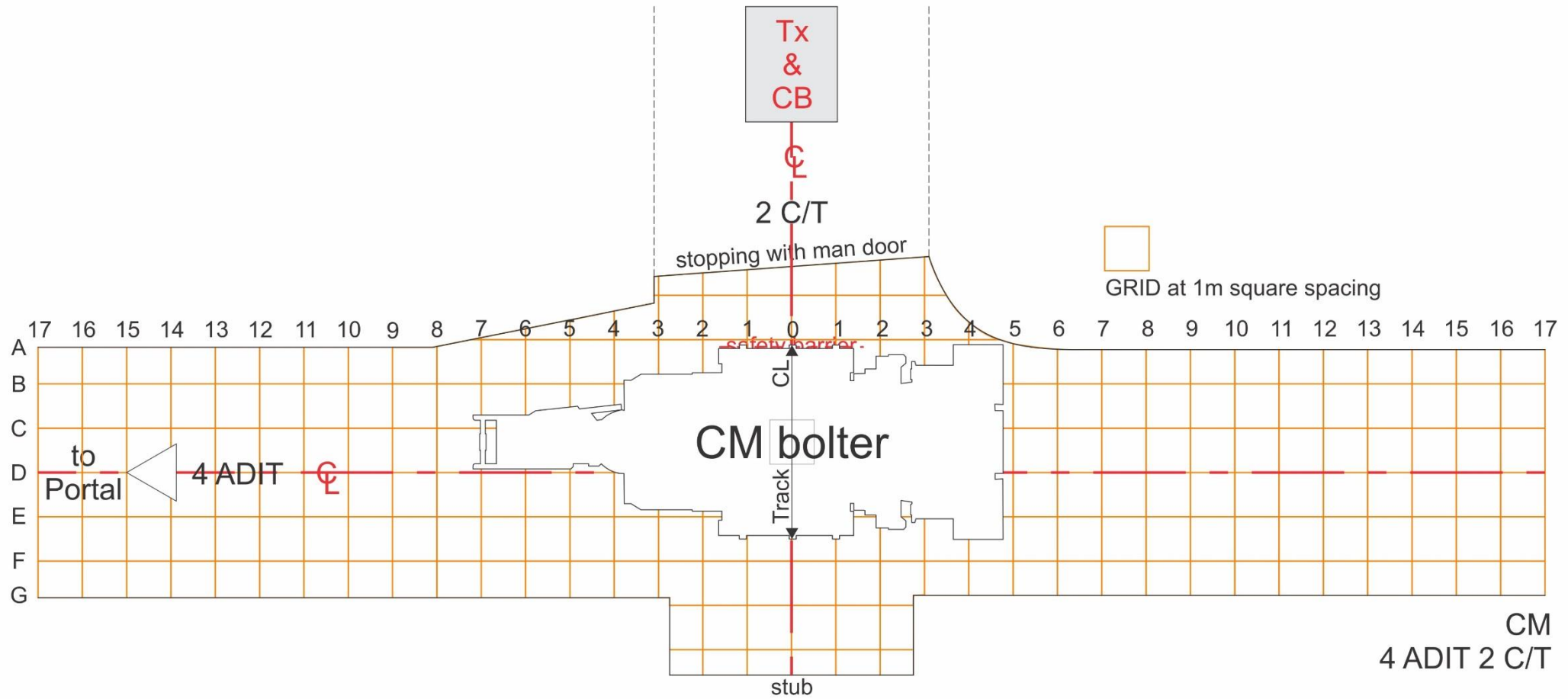


A Past forgotten is a future repeated



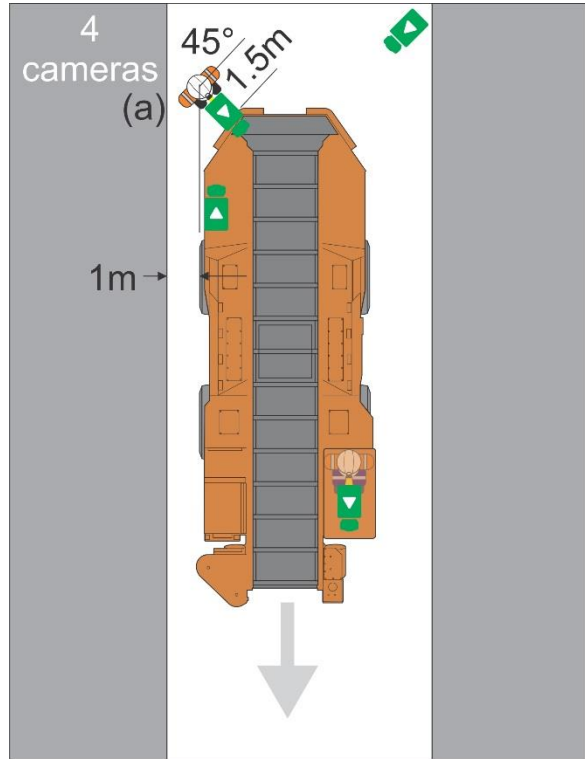


A Past forgotten is a future repeated

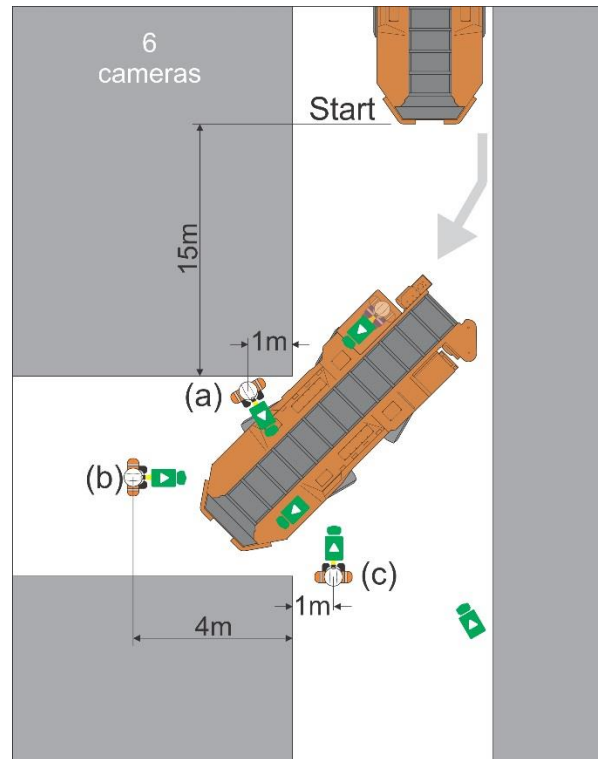




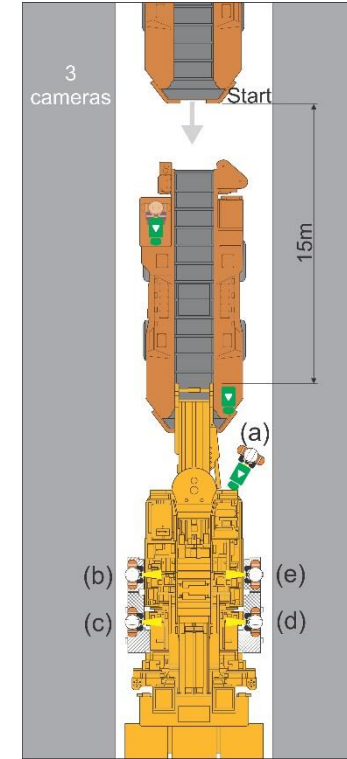
A Past forgotten is a future repeated



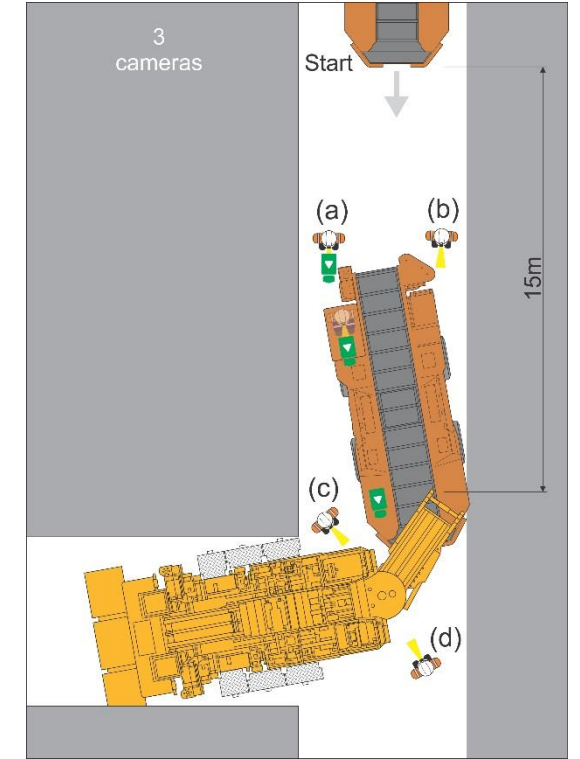
Scenario 1a



Scenario 2a



Scenario 4a

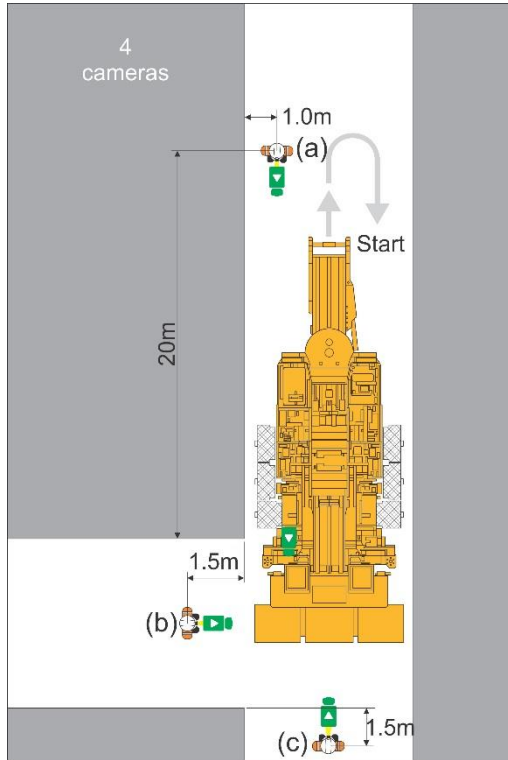


Scenario 5b

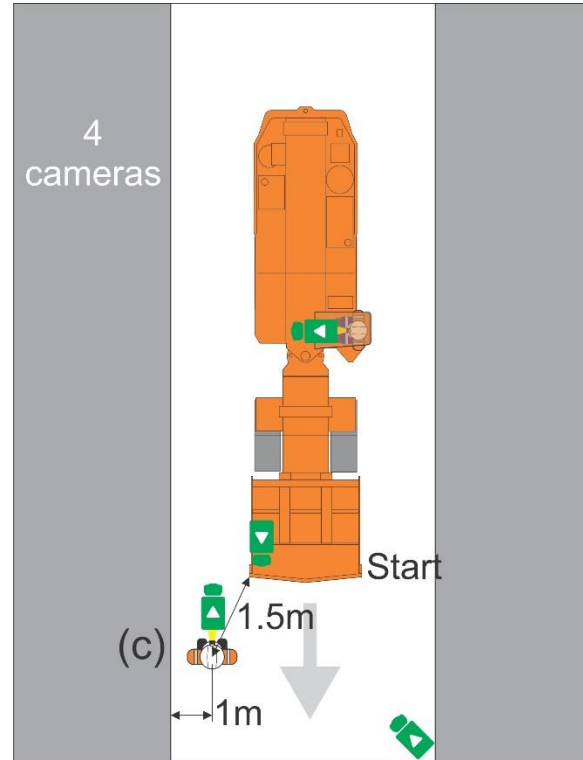




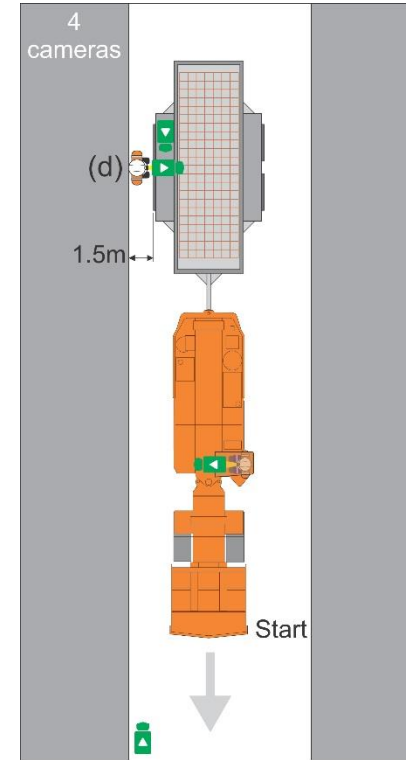
A Past forgotten is a future repeated



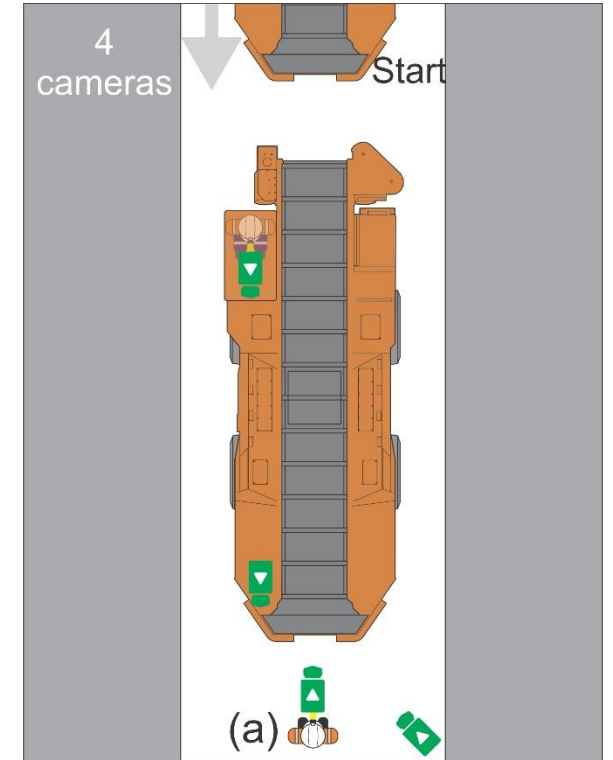
Scenario 6a



Scenario 7c



Scenario 8d

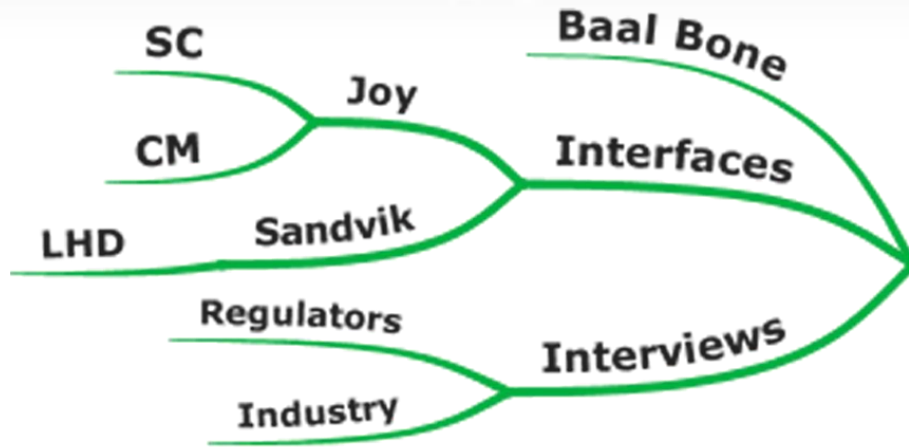


Scenario 9





A Past forgotten is a future repeated





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