



Regression Testing How Saint Gobain/CertainTeed revolutionized their approach

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Session ID ASUG84101

About the Speakers

Marc Croquette

- Saint-Gobain CertainTeed
- 20 years in IT for manufacturing
- Loves DIY home improvement

Prenil Poulouse

- Saint-Gobain CertainTeed
- 10 years in IT
- Speaks 5 languages

Colin Armitage

- Original Software
- Quality – 20 years of innovation
- DIY (if I must)
- Tennis, Ski & Golf if not

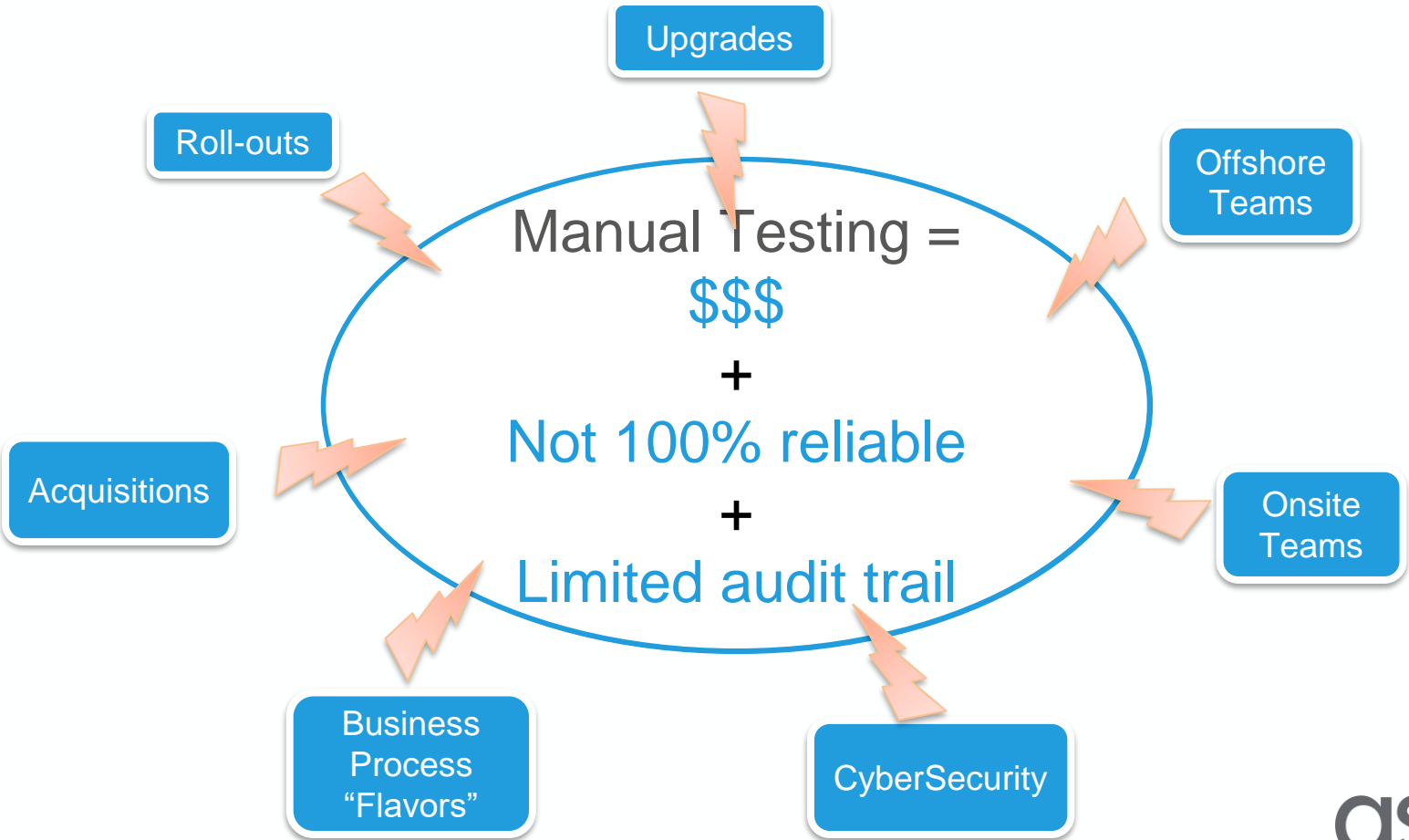
Key Outcomes/Objectives

1. Understanding of SG CT approach for business processes automated regression testing for
2. How can automated testing help your organization?
3. Have (some) fun along the way

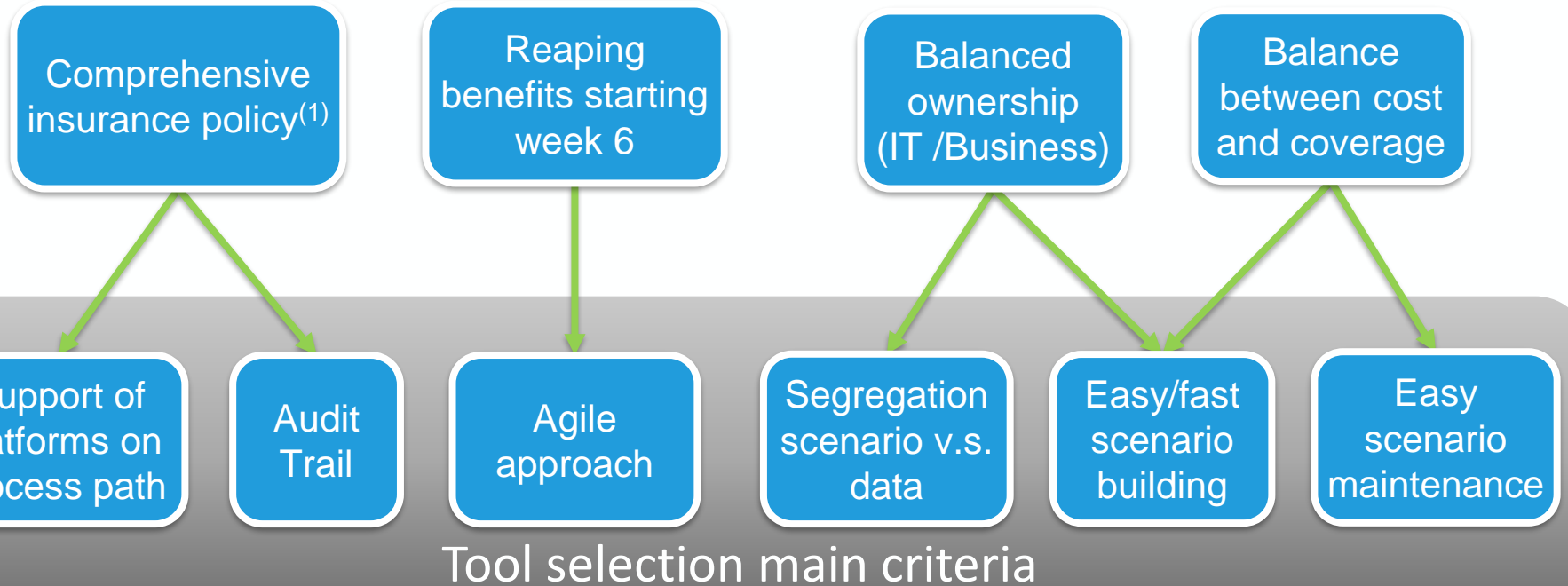
Agenda

- SG CT landscape and related challenges
- Our expectations from automated testing
- The SG CT approach
- Key success factors
- Our experience and benefits realized

CertainTeed application landscape and main sources of changes



CertainTeed expectations from Automated Testing



(1): against business process interruptions

Automated Regression Testing – A Classical Approach


Test the script – Test the change – Compare actuals with reference values

1 -
Transact

3 -
Transact


SAP

Step 1
Enter sales order



SAP

Step 2
Drop delivery




Manhattan Associates

Step 3
Tender Shipment



SAP

Step 4
PGI and Invoice



Key



11
inspection
points

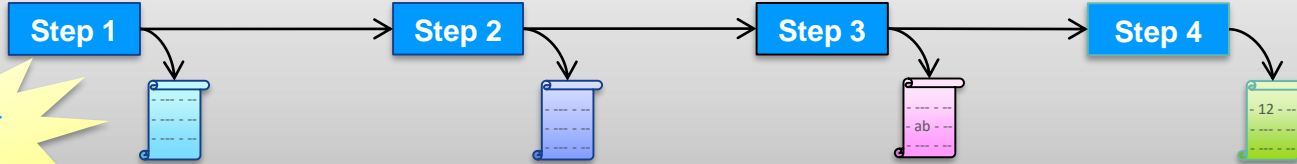
2 -
Inspect

4 -
Inspect

- Surgical “inclusive” checks, i.e. “what isn’t specifically looked at isn’t checked”
- Checks embedded in script – Limited comparison options
- What if reference values change? Pricing...

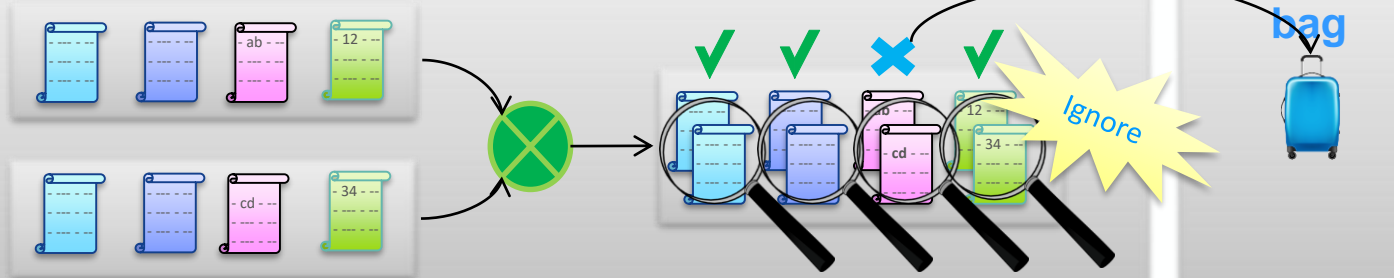
Automated Regression Testing – CertainTeed Approach

A - Run the scenario **before** the change



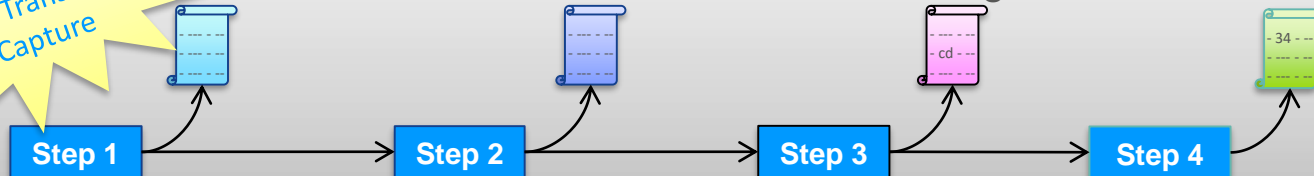
1 - Transact Capture

C - Run the **comparison**



3 - Compare

B - Run the scenario **after** the change



2 - Transact Capture

Key
Results

Airport version

The "Bag Claiming" process

Here are two
"Unclaimed"
Bags

There's
Mine!

There's
Mine!

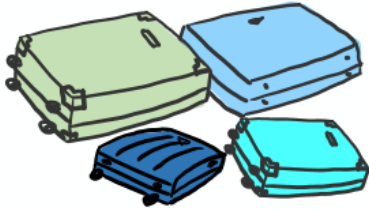
There
are
Mines!

That's
Mine -
but it's
damaged!



ASUG

Differences collected and categorized



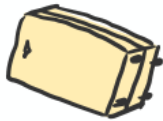
“Claimed” **expected, correct** changes.



“Claimed” **expected but wrong** changes.

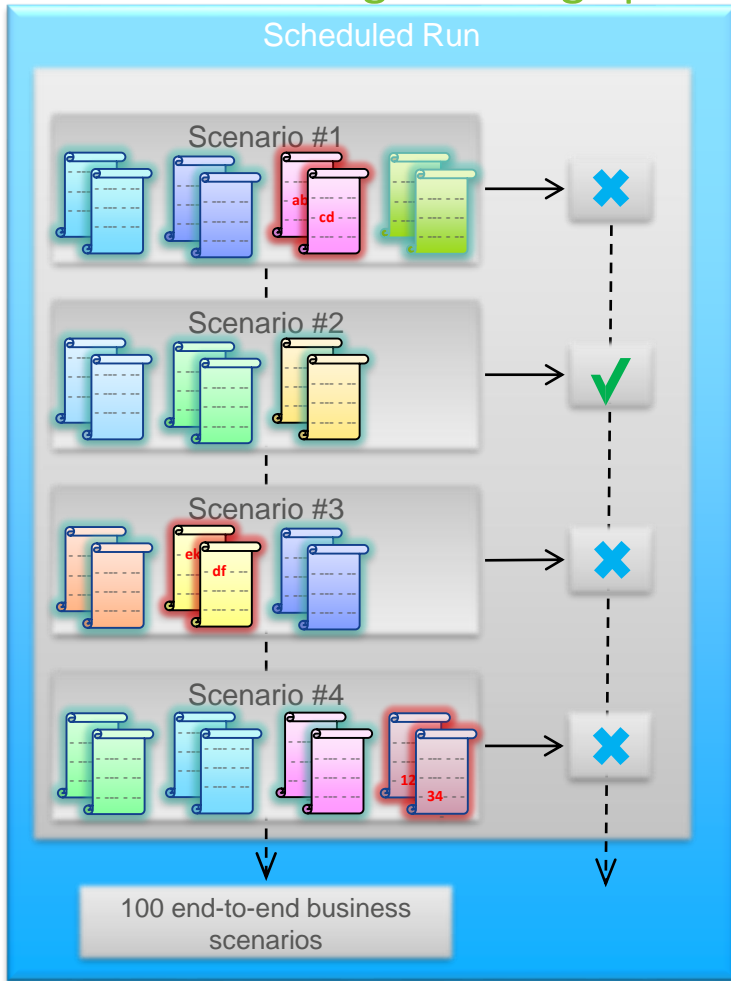


“Un-Claimed” changes. **Deemed Wrong** – after review

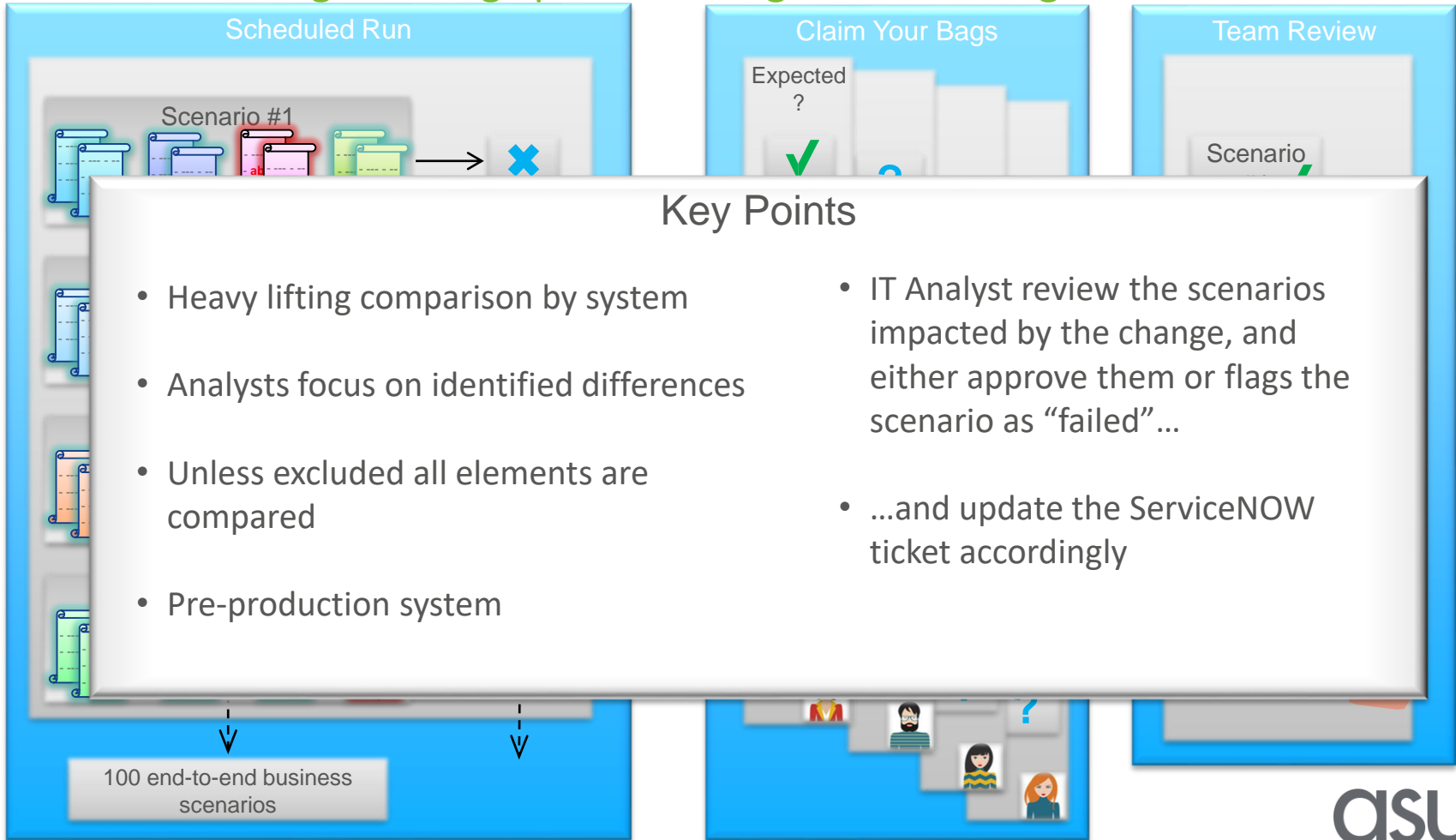


“Un-Claimed” changes. **Deemed OK** – after review

The "Bag Claiming" process – Regression Testing version

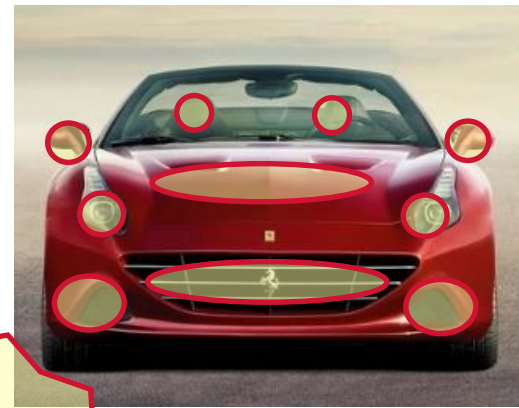
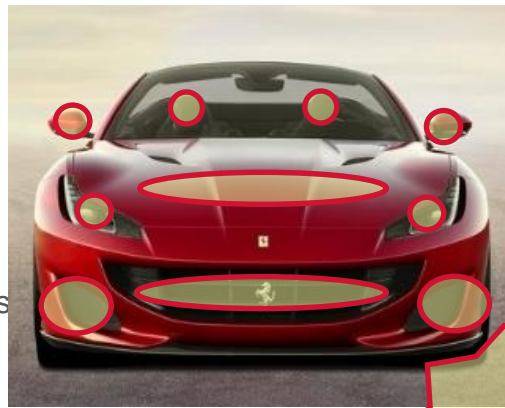


The “Bag Claiming” process – Regression Testing version



Key success Factors

- Mass comparison
 - No need to compare “field-by-field”
- No programming
 - Smooth and quick adoption by testers
- Robust field/action identification
 - Works with SAP, SFdC, web...
- Adaptable to different platforms (SAP, web...)
 - Available emulators
- Strong collaboration between players
- Two skillsets
 - Video-recording by Super users
 - “Automation” by dedicated IT team
- Strong integration of Testing Automation in Change Control process



Can you spot the differences?



Our experience and benefits realized

- Timeline (our experience):



- Tool implementation: couple of weeks (Original Software Qualify + TestDrive)
- **Scenario building: 80 end-to-end scripts in 5 months**
 - Order to Cash, Procure to Pay, Plan to Manufacture...
 - **3 offshore FTEs** with testing automation experience (on different tools)

- Intangible benefits

- Happier users
- Business confidence in their process stability



- Tangible benefits

- 5 significant defects (undetected by manual testing) caught in the last 10 months
 - Avoided Customer Services shut down
- Efficient (especially for Super Users)
- “No fatigue” (upgrade testing)
- Audit documentation
- User manuals (100s of man.days saved)



- Next Steps

- Enrich the library (250 scripts by the end of 2019)
- Extend to other technologies (SFdC, Hybris, Qlikview...)

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Presentation Materials

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<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact us at

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