

## (1) Scope of work, value Undesired outcome

Sponsor,  
high-value/risk  
process owner

Champion,  
Quality Manager

Domain  
experts,  
Stakeholders

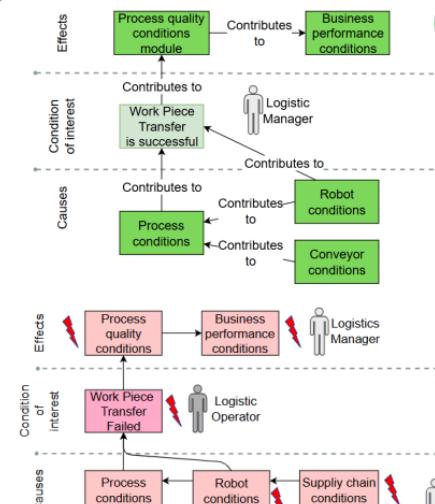
Process outcome:  
Why is Work Piece  
Transfer failure  
rate high?

Work Piece  
Transfer failed

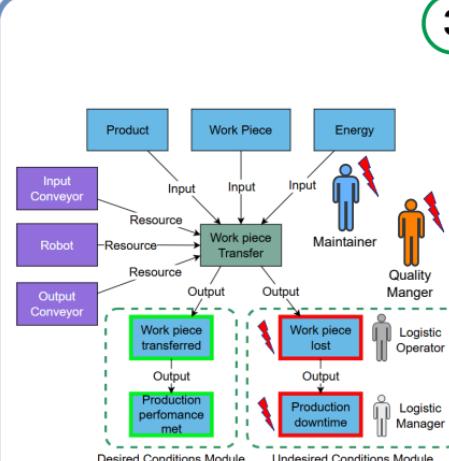
### Gherkin Scenarios

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Scenario: Transfer of the Work-Piece in undesired conditions
Given "Robot-Vacuum-Gripper" "gripper positioning" is "inaccurate"
Given "Robot-Vacuum-Gripper" has picked "the Work-Piece"
When "Robot-Vacuum-Gripper" transfers "the Work-Piece" to "destination"
Then "Robot-Vacuum-Gripper" "adhesion" is "insufficient"
Then "Work-Piece Transfer" "failed" # Undesired outcome
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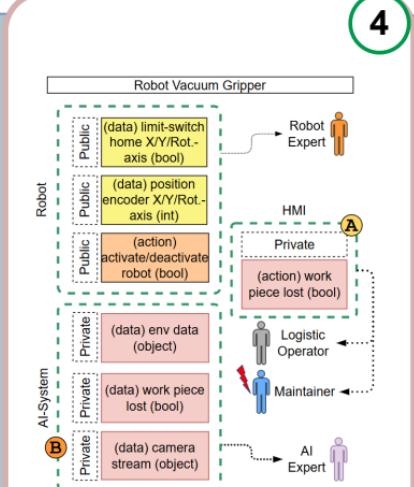
## (2) Production conditions (DIN 60812) Cause+Effect Network (CEN)



## (3) Product, Process, Resource Asset Network (PAN) for a CPPS (VDI 3682)



## (4) Production Data Space (PDS, VDI 2206)



IS Solution  
Architecture

Production  
Knowledge/Database

IS User  
Interface

IT  
Expert



### Gherkin Scenarios

5

6

### Answers to stakeholder questions

