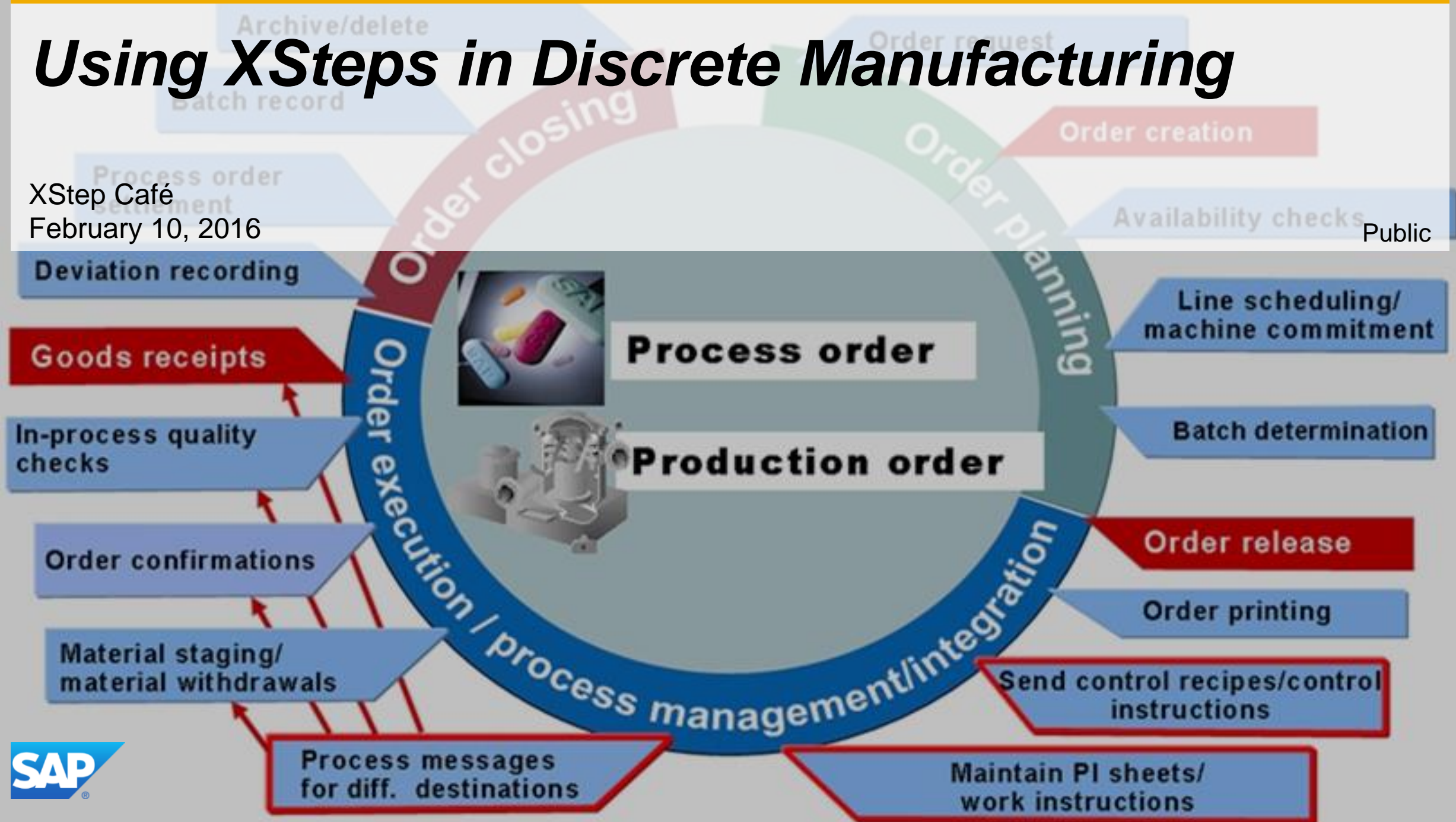


# Using XSteps in Discrete Manufacturing

XStep Café  
February 10, 2016

Public



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# Production Execution and SAP Process Management (PP-PI-PMA)

## Main Objectives

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**“Coordinate the exchange of production-relevant data between ERP system and the independent production level (of an external system)”**

Control of production level – Execution of planned production steps:

- Manually (process operator)
- Automated (process control system [PCS])
- Partially automated: (process operator & process control system [PCS])

Source: [Process Management](#) (SAP Library)

# Production Execution and SAP Process Management (PP-PI-PMA)

## Handle Production Relevant Data

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### Handling production-relevant data:

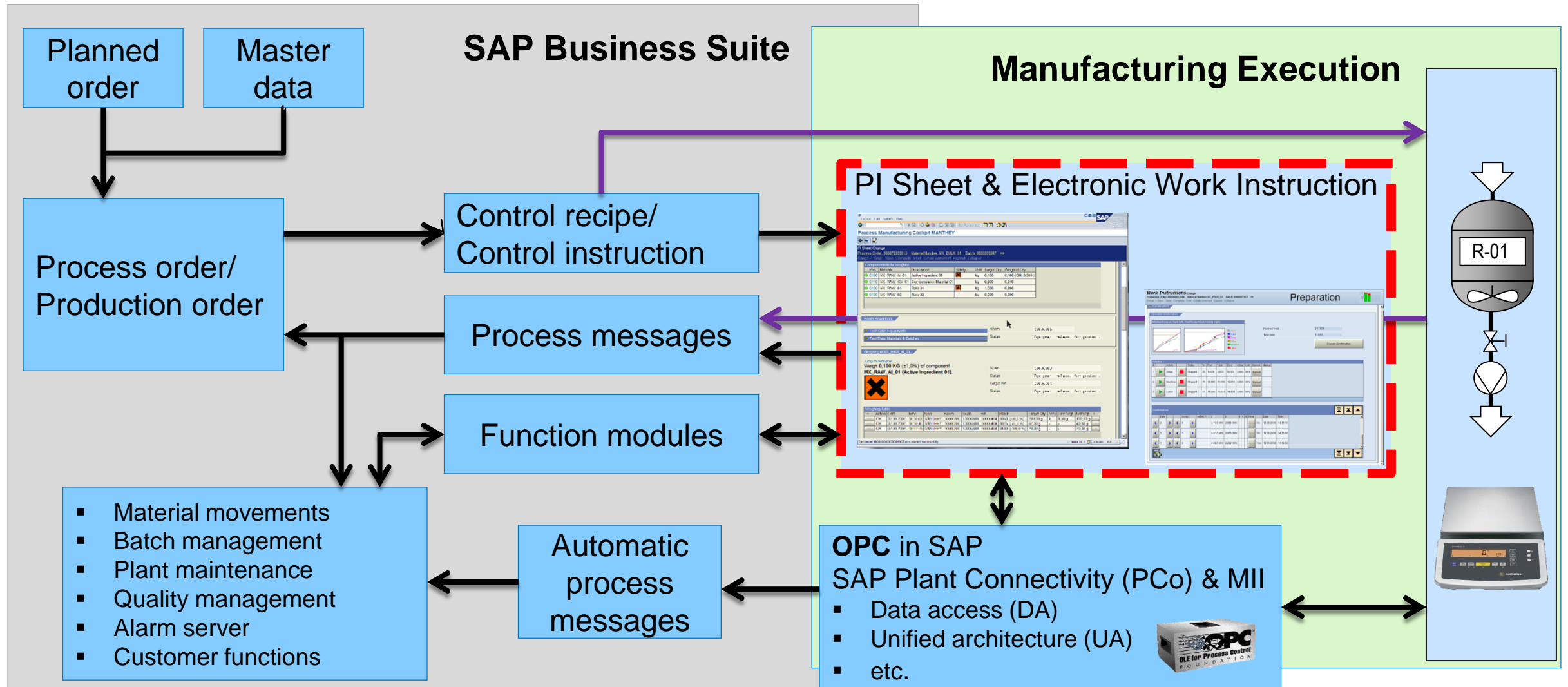
- Store it in process instructions (using XSteps)
  - Decide to whom the data is forwarded (operator or process control system?)
- Combine the data using control instructions
- Send the data to process management

### Process management:

- receives the sent data (control instructions)
  - Receiver: Process operator -> data prepared as text -> electronic work instruction
  - Process: Process control system -> data sent as parameters
  - .....

# Production Execution and SAP Process Management (PP-PI-PMA)

## Main Functional Blocks (Discrete & Process)



# Electronic Work Instructions

## Content Definition: User Actions and Activities

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### User actions and activities

Constant set of user actions since +20 years

- Read data and information
- Enter data and information (including digital signatures)
- Control data
  - Execute calculations
  - Read and write values to data points/tags
    - Weighing system data, data of other work instructions etc.
  - Execute ABAP function calls
  - Trigger commands of the work instruction
    - Complete table line etc.

# Electronic Work Instructions

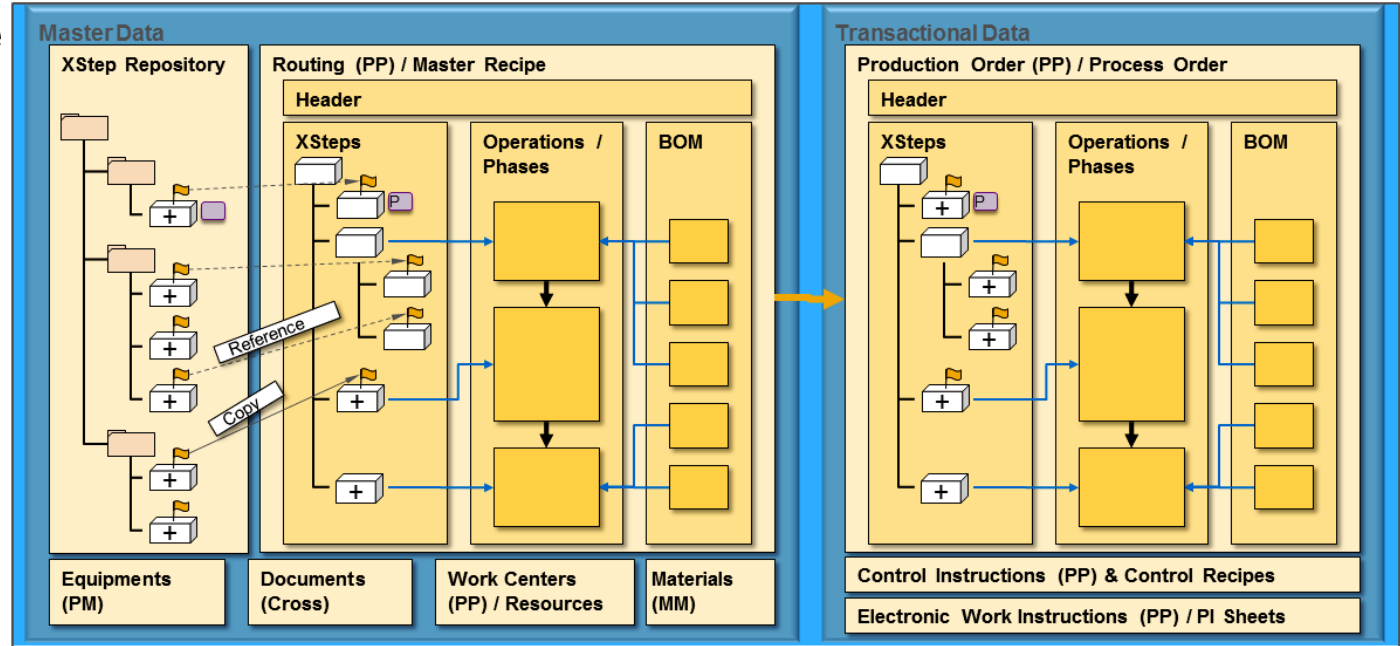
## Content Definition

Define which part of the content is reusable

- Create reusable building blocks (modelled as Standard XSteps [SXS])
  - Independent from application content

Define the routing-related content part

- Group the content (same control instruction destination)
  - Independent from application content
- Link to reusable building blocks
  - SXS reference nodes



If required enhance the defined content in the order

# Questions and Answers

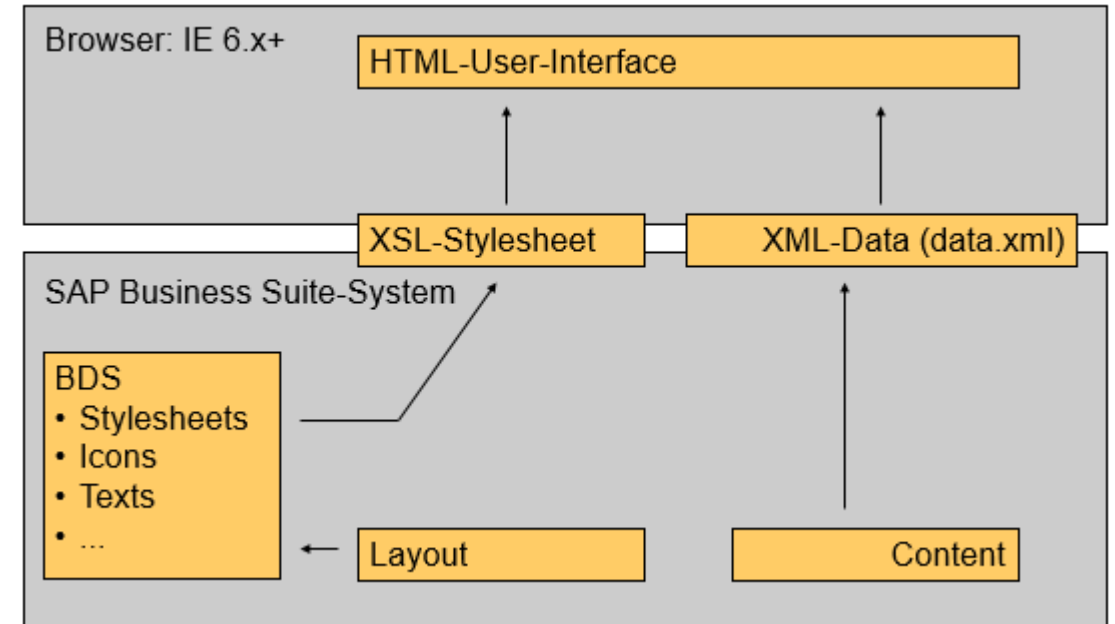
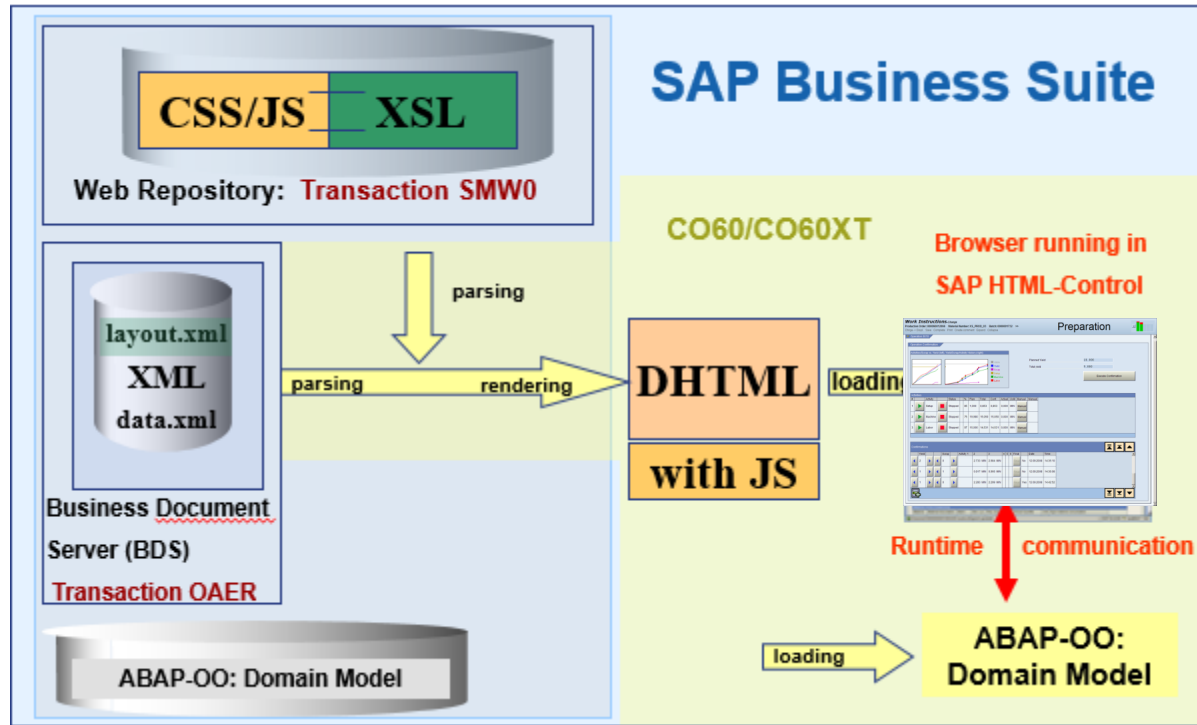
## Discussion & Next Steps

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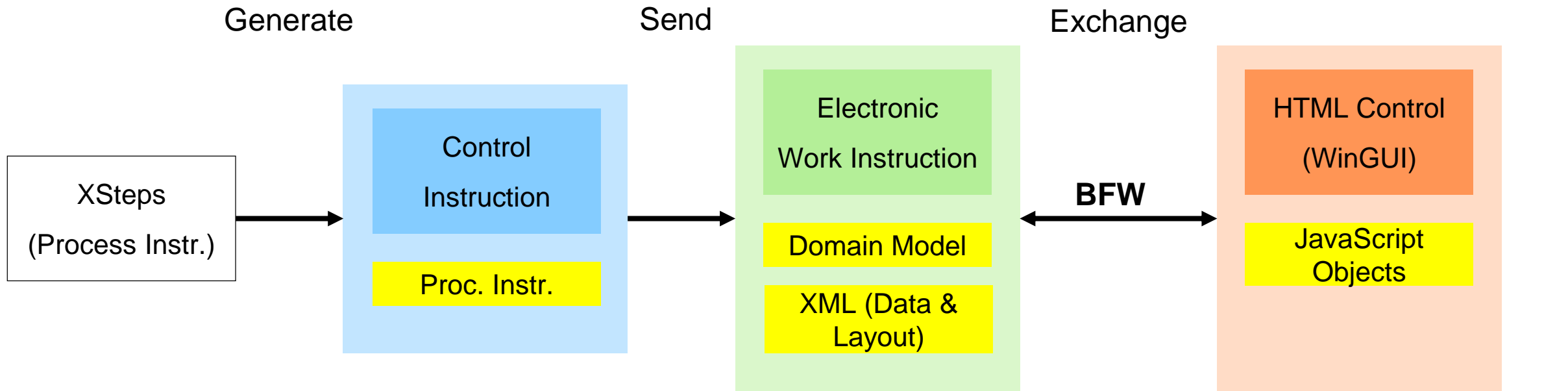
# Electronic Work Instructions

## Main Building Blocks & HTML Generation



# Electronic Work Instructions

## Current Process to Generate and Maintain Work Instructions



**See how it works -> Demo**

**BFW:** Browser Framework (Channels)



**Thank you**