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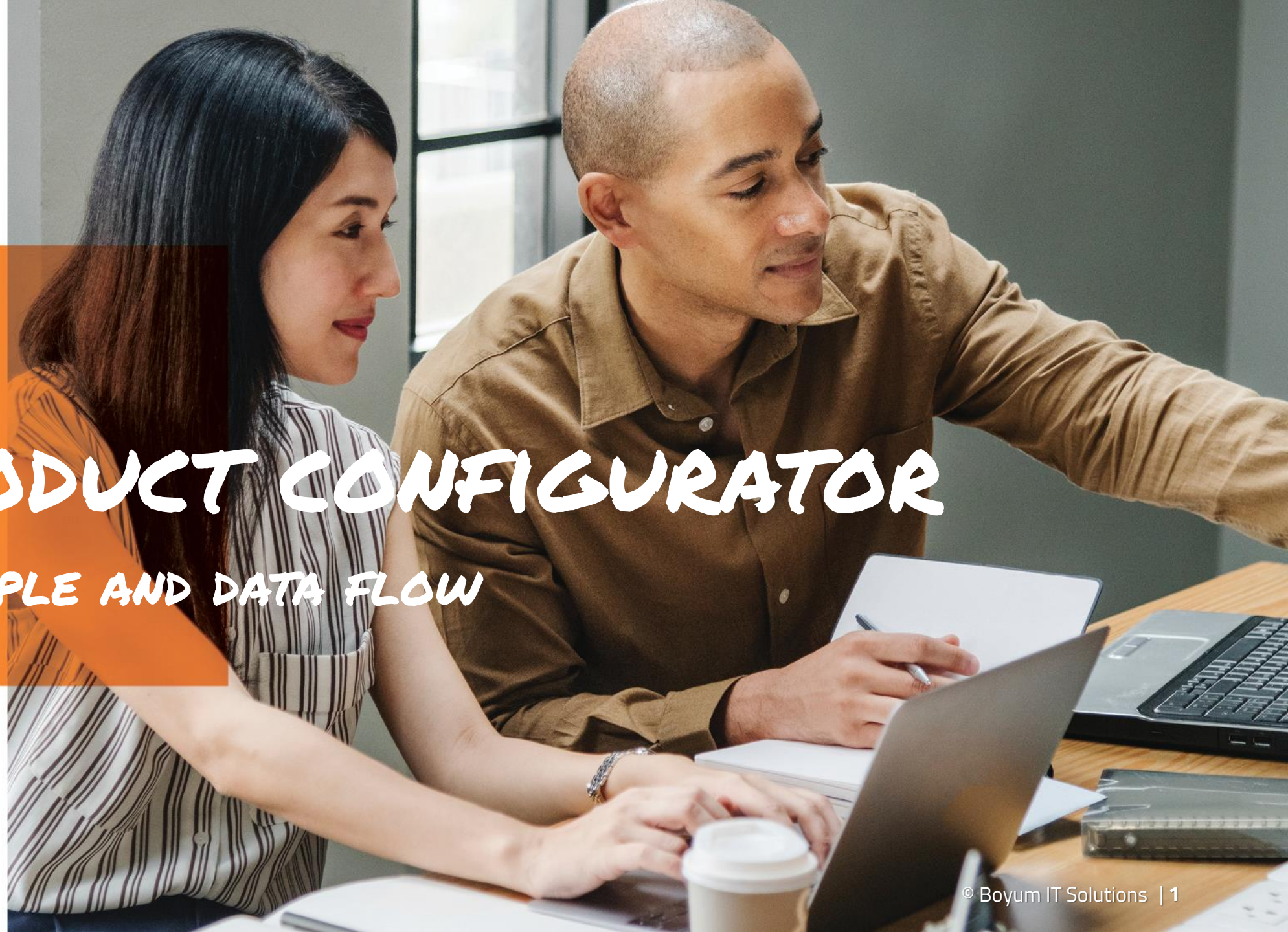

Product Configurator

Example and data flow

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Requirements for this tutorial

What you need to know

1. The basics of SAP Business One
2. The basics of Beas Manufacturing
3. Basic commercial know-how

Learning targets

After working through the lesson, you will be able to:

1. understand the possible levels of complexity
2. understand the process logic
3. know the data flow regarding the product configuration
4. have an overview on coding

AGENDA

Explanation of product configurator

- **1. Possible levels of complexity**
- 2. Decision tree (bicycle example)
- 3. Realization
- 4. Data flow
- 5. Coding

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Possible levels of complexity

Very simple

- No graphical surface

- enter data in UDF into SBO form (measures, weight etc.)

- assignemt of values stored in fields in BoM and item master (formulas may be used)

- based on maximum BoMs and routings

Normal

- graphical surface, built up dynamically

- in the item the creation of the surface is coded

- based on maximum BoMs and routings

- assignment of values (via decisions YES/NO or exchange) stored in BoM and item master in appropriate fields (eg. via formulas)

Complex

- graphical surface, built up dynamically

- in the item the creation of the surface is coded

- BoMs and routings are extendable dynamically

- assignment of values stored in BoM and item master and can be extended by BeasScript-programming

Very complex

- static programmed surface (incl. functional logic), depending on the item

- BoMs and routings are extendable dynamically

- assignment of values stored in BoM and item master and can be extended by BeasScript-programming

AGENDA

Explanation of product configurator

1. Possible levels of complexity
2. **Decision tree (bicycle example)**
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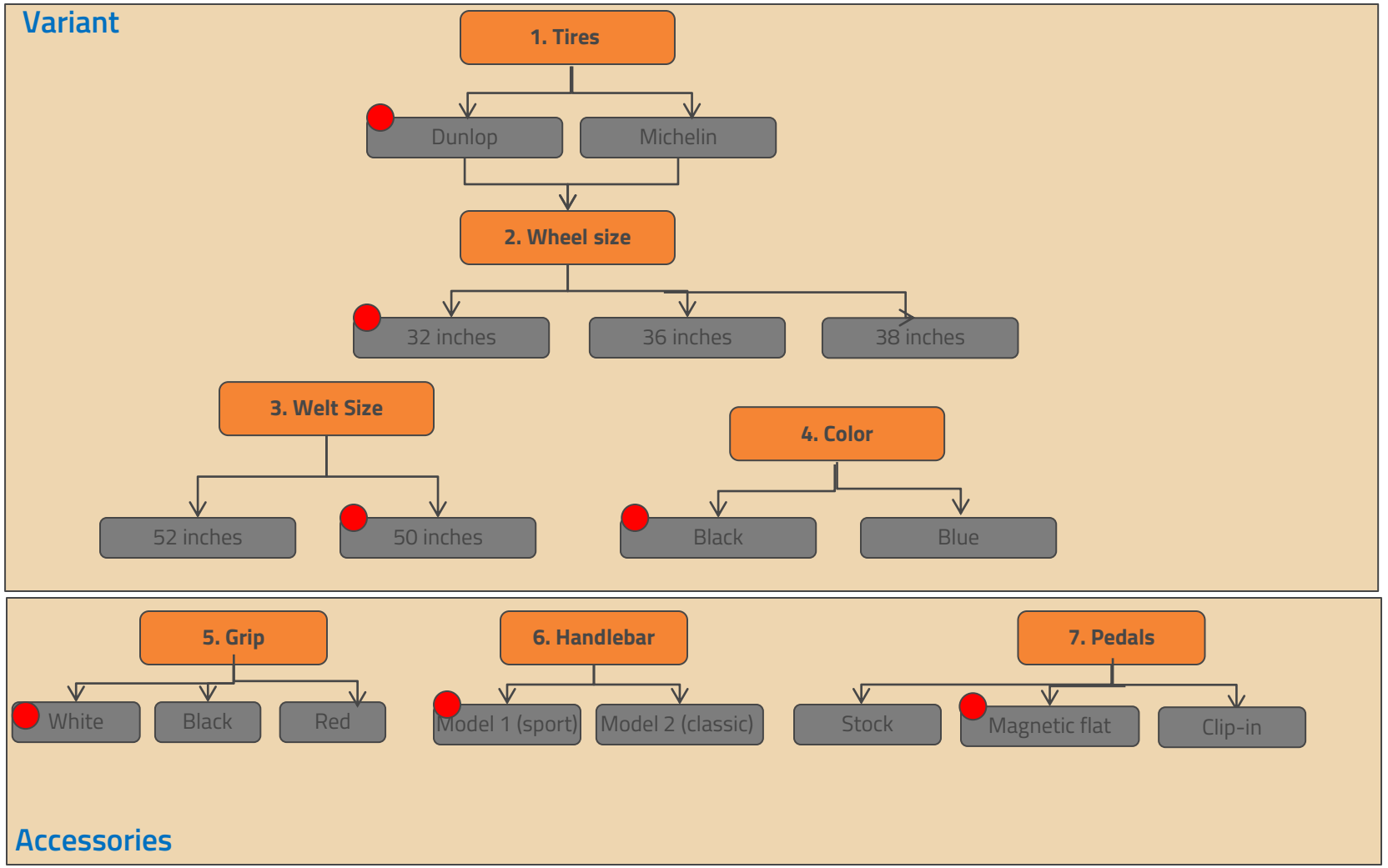
Decision tree

(Bicycle example, normal complexity)



Resulting BoM
Tires “Dunlop“
Wheel “32 inches“
Welt “50“
Color “Black“
Grip “White“
Handlebar “Model 1 (sport)“
Pedals „Magnetic flat“

AGENDA

Explanation of product configurator

1. Possible levels of complexity
2. Decision tree (bicycle example)
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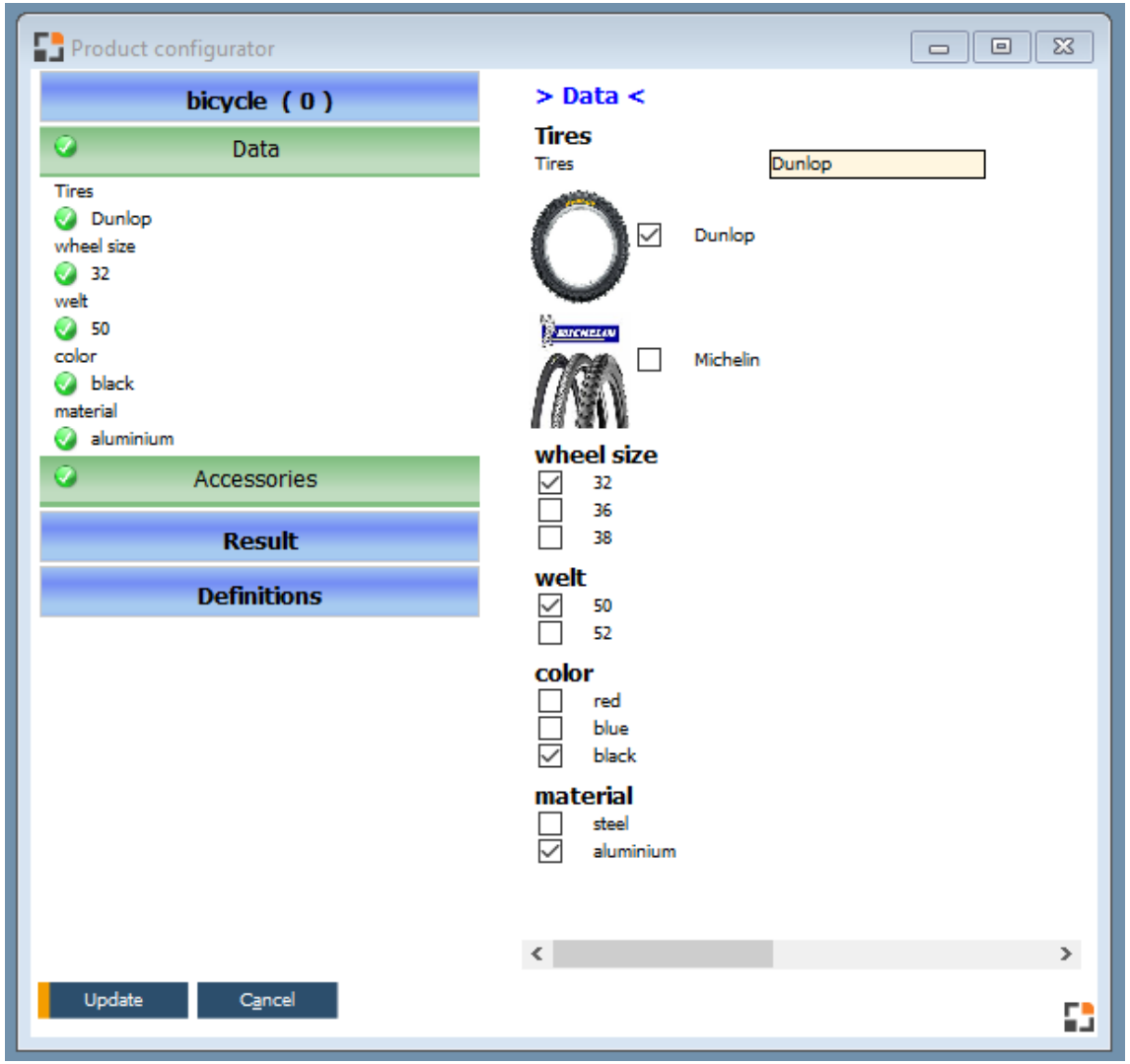
Realization

(Bicycle example, Configuration block “execution”)



- Tires: “Dunlop”
- Wheel size “32 inches”
- Material: “Aluminum”

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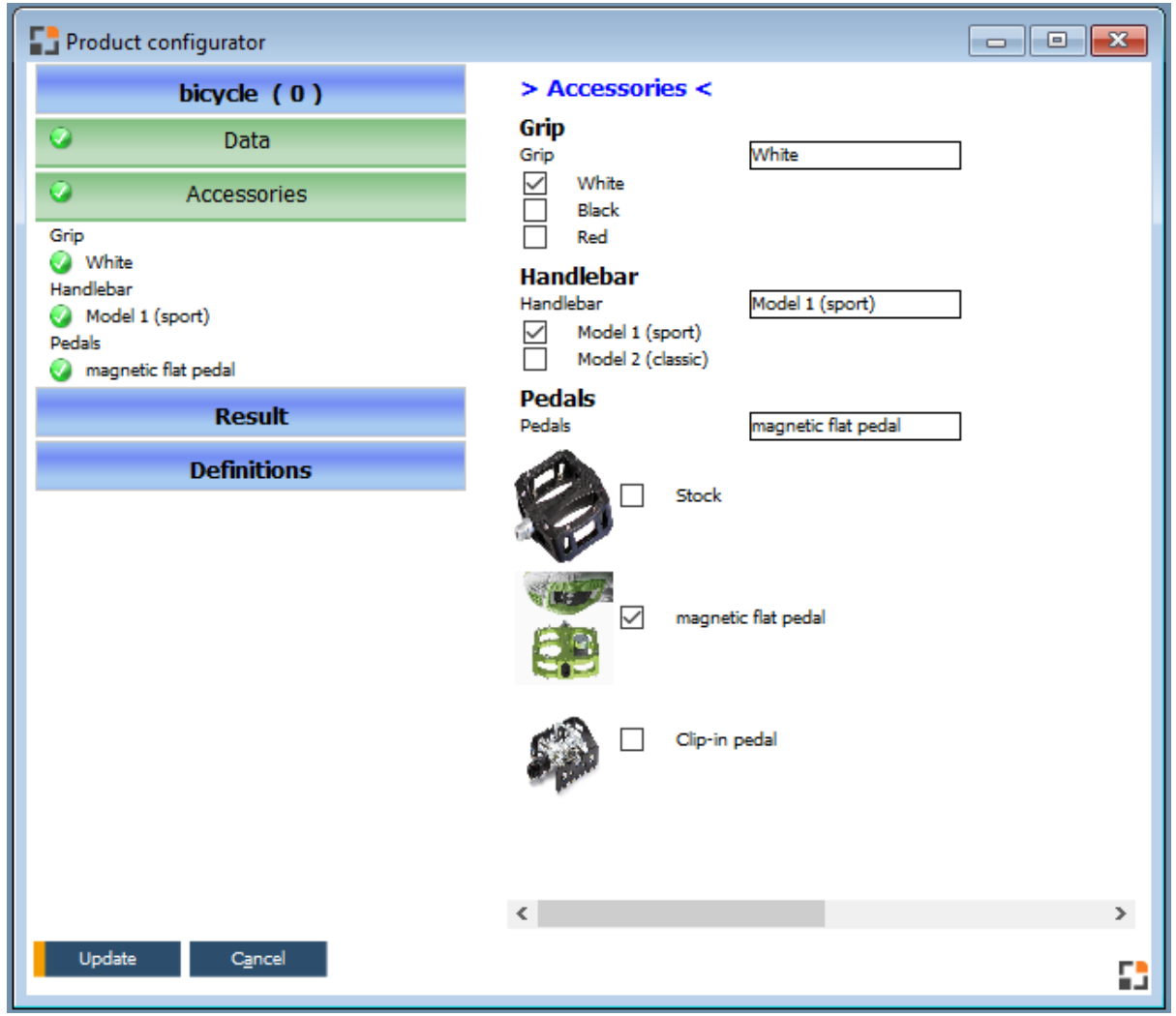
Realization

(Bicycle example, Configuration block “execution”)



- Grip: “White”
- Handlebar: “Model 1 (sport)
- Pedals: “Magnetic flat”

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AGENDA

Explanation of product configurator

1. Possible levels of complexity
2. Decision tree (bicycle example)
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4. **Data flow**
5. Coding

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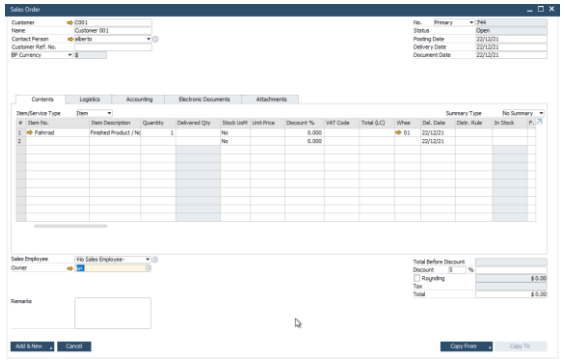
Data flow

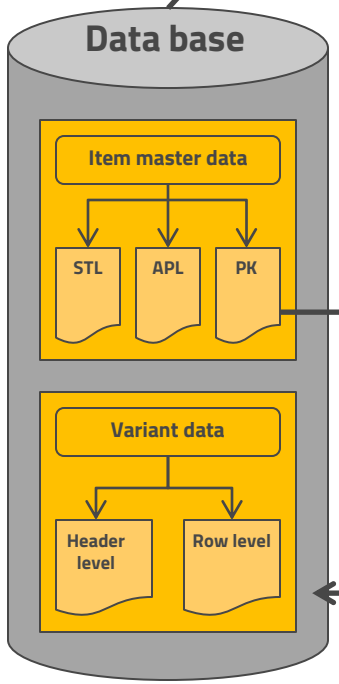
(From/To product configurator)

SAP-Form



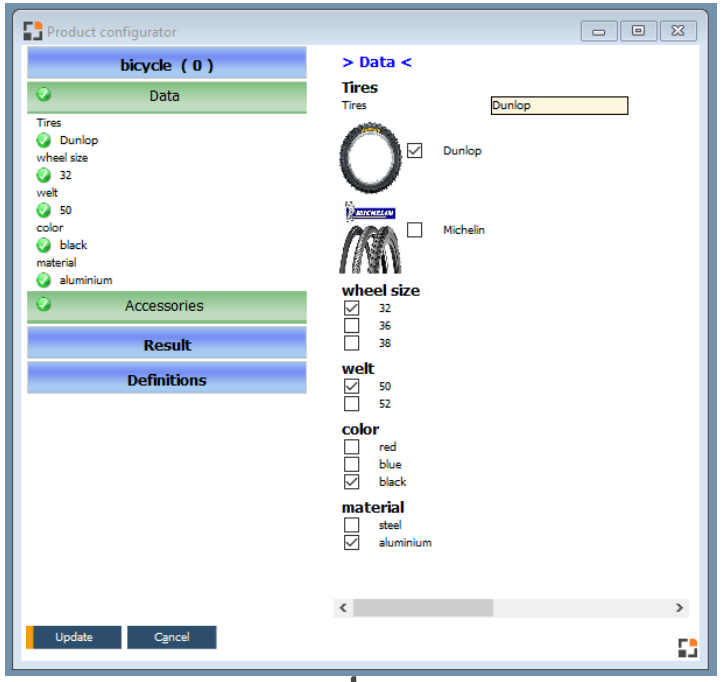
Call from offer
or customer order

Data



STL: BOM
APL: Operation
PK: Definition of
Product configurator-GUI

Data for configurator

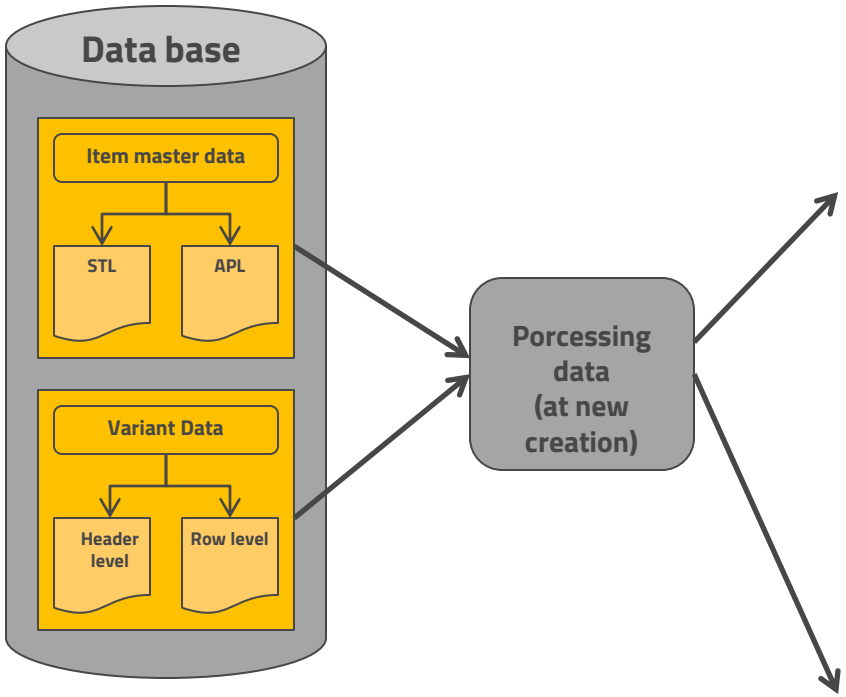


Product configurator

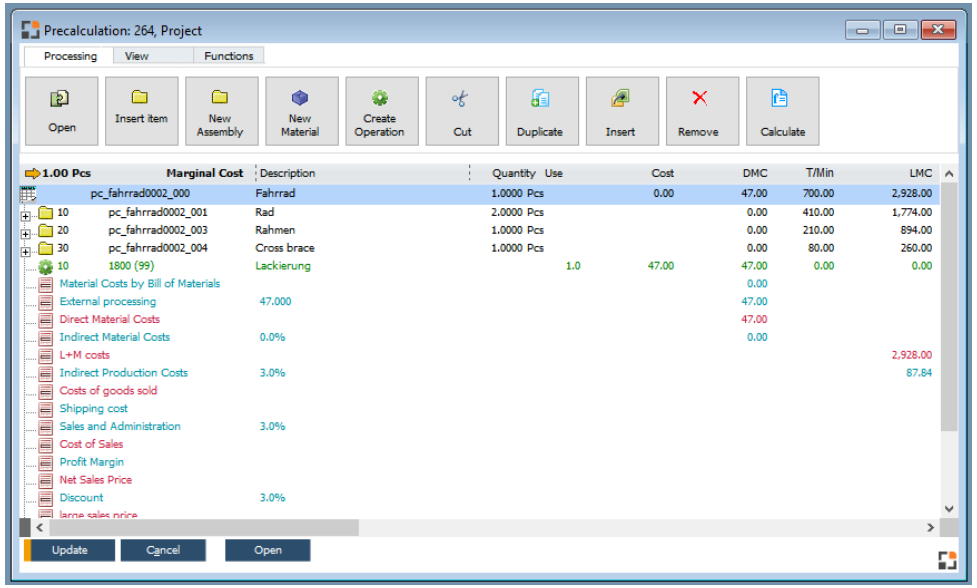
Save configuration (as variant)

Data flow

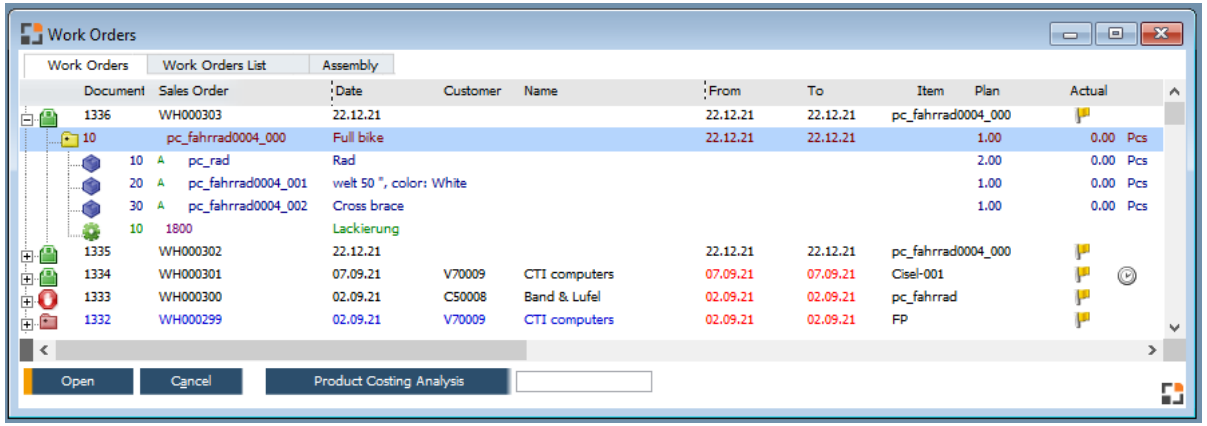
(Creation of precalculation / work order)



Pre-calculation (Beas)



Work order (Beas)



AGENDA

Explanation of product configurator

1. Possible levels of complexity
2. Decision tree (bicycle example)
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4. Data flow
5. **Coding**

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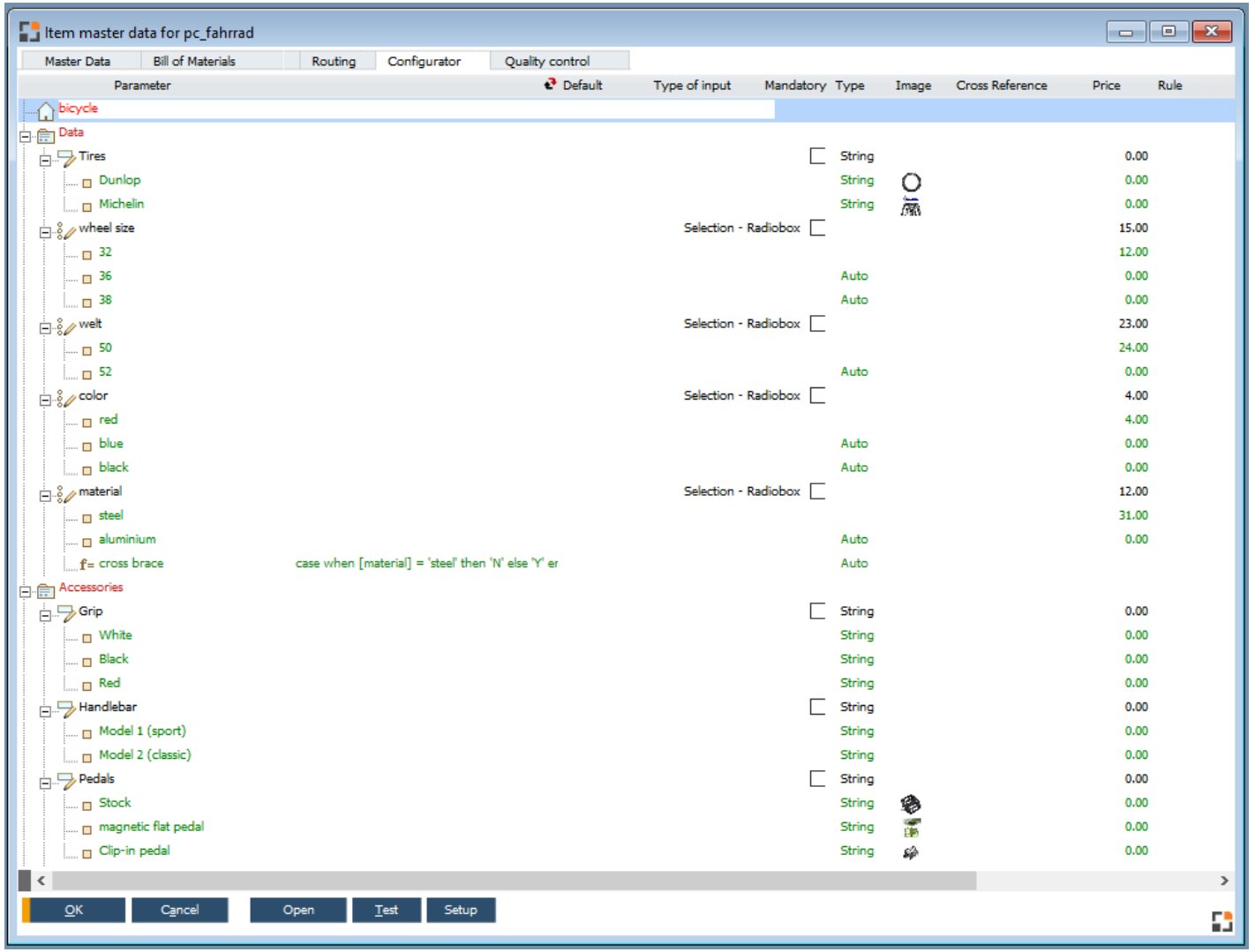
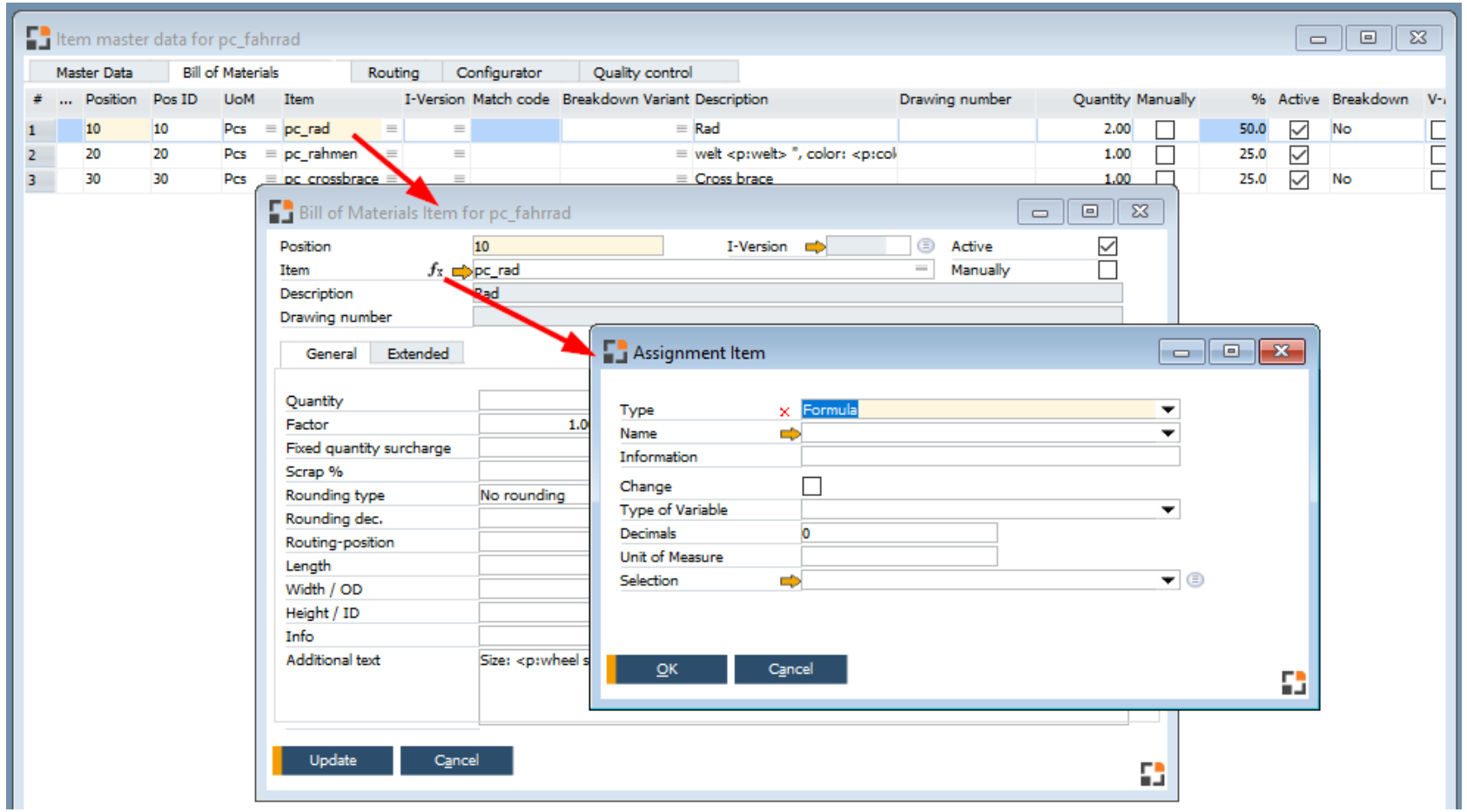
Coding

(Product configurator surface)



Coding

(Assignment of parameters/Variables to single fields in BoM / Routing)



Summary

You can now:

- understand the possible levels of complexity
- understand the process logic
- know the data flow regarding the product configuration
- have an overview on coding

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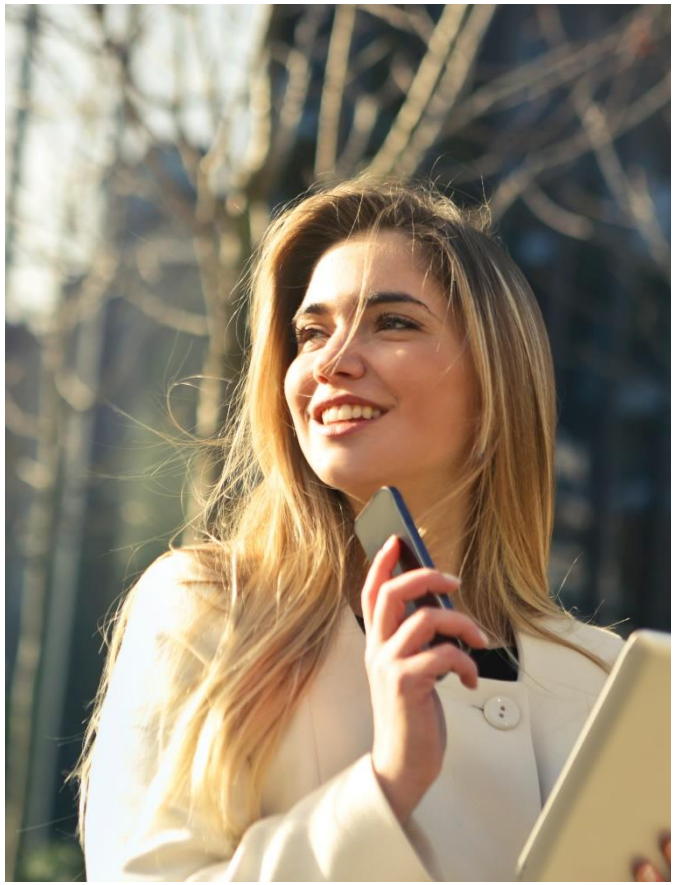

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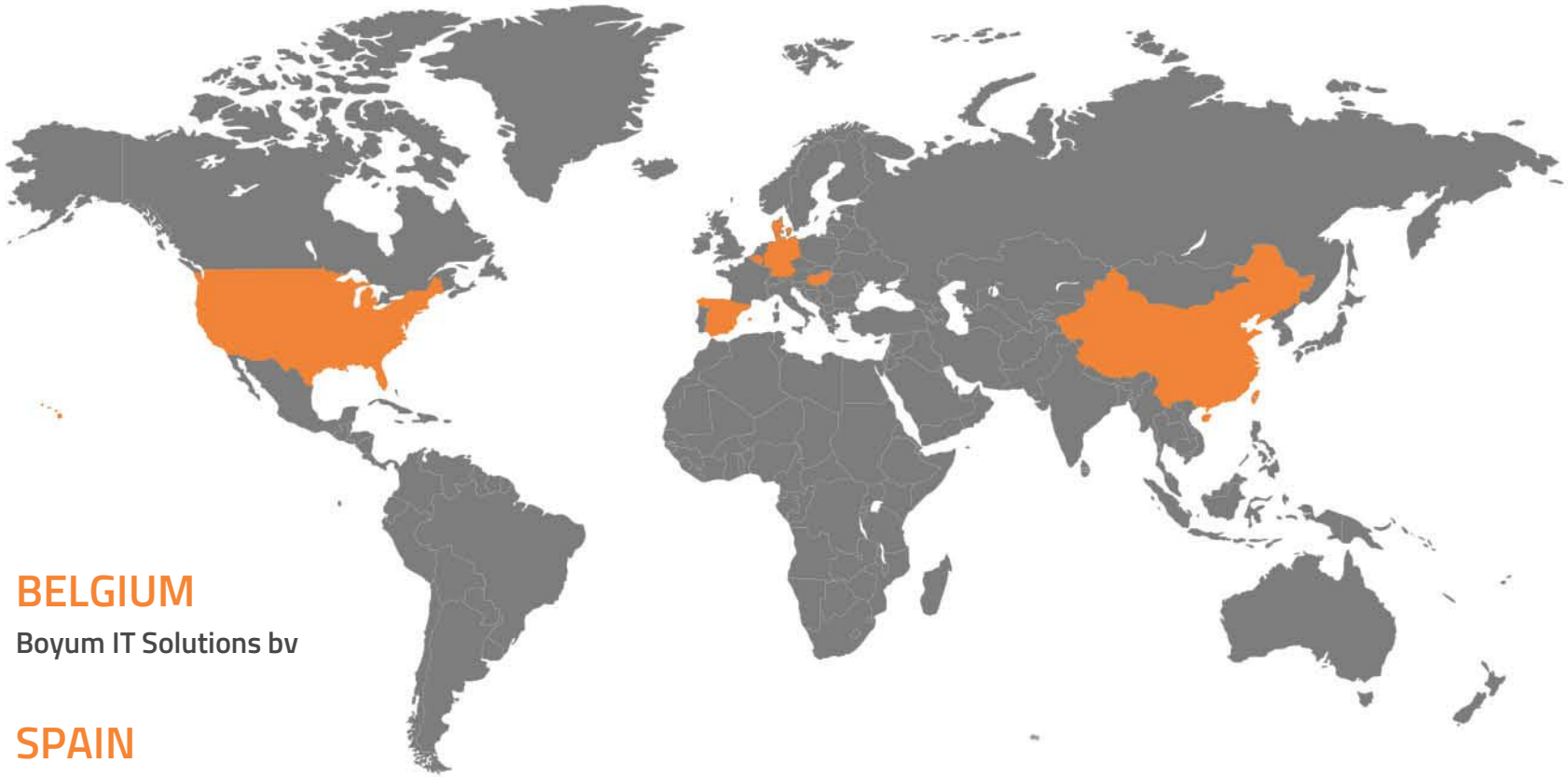

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