

Production Process can be treated as the CES of the Model because it will deal with the contexts gathered from various IoT devices.

Icon Logic and CES Representation:

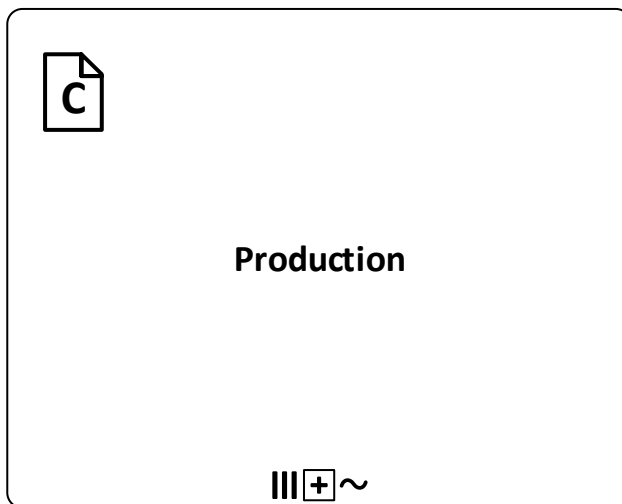
This Visual Representation of Icon can be seen as multiple contexts being sensed and a path to the output is chosen depending upon the context. The Icon is a Data Object with C written that signifies that this is a process that depends upon the Contextual Data received from IoT devices.

Iconic representations speed up recognition and recall and improve intelligibility of diagrams to naive users. They also make diagrams more accessible to novices: A representation composed of pictures appears less daunting than one composed of abstract symbols. Finally, they make diagrams more visually appealing: people prefer real objects to abstract shapes. (4.3.1 of Daniel Moody - The "Physics" of Notations)

Most SE notations use only a single visual variable to encode information: shape (see Fig. 28). Such notations are visually one-dimensional: they use only one of the eight available visual communication channels, and ironically, the one with the lowest bandwidth. Shape is one of the least powerful visual variables as it can only be used to encode nominal data and is one of the least cognitively efficient. (4.6 of Daniel Moody - The "Physics" of Notations)

Hybrid (Graphics+Text) Symbols: Textual encoding can be used to reinforce and expand the meaning of graphical symbols. This combines the semantic expressiveness of the UML convention with the visual expressiveness of the Oracle convention, while also taking advantage of dual coding. (4.7.2 of Daniel Moody - The "Physics" of Notations)

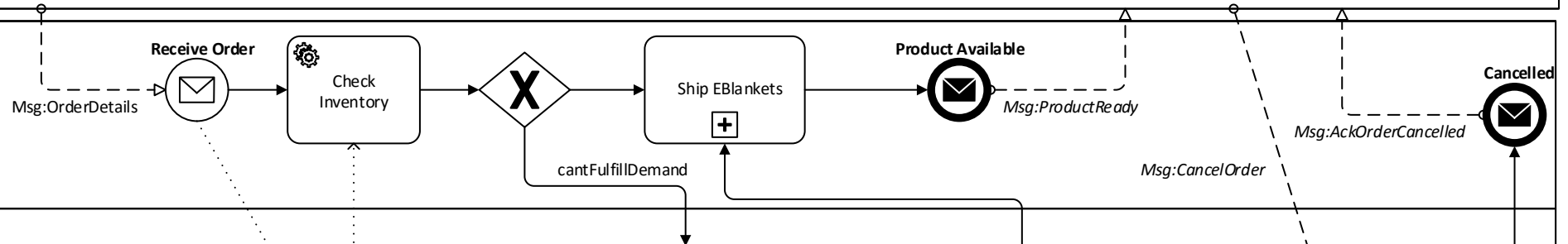
As we are already familiar with the Data Object icon and Context depicts various kinds of Data Objects, it's icon with a "C" in it can depict "Context" to the reader or designer or developer. It makes the CES icon one Hybrid Symbol which has a greater bandwidth (appeal).



Collapsed Sub-Process (CES)

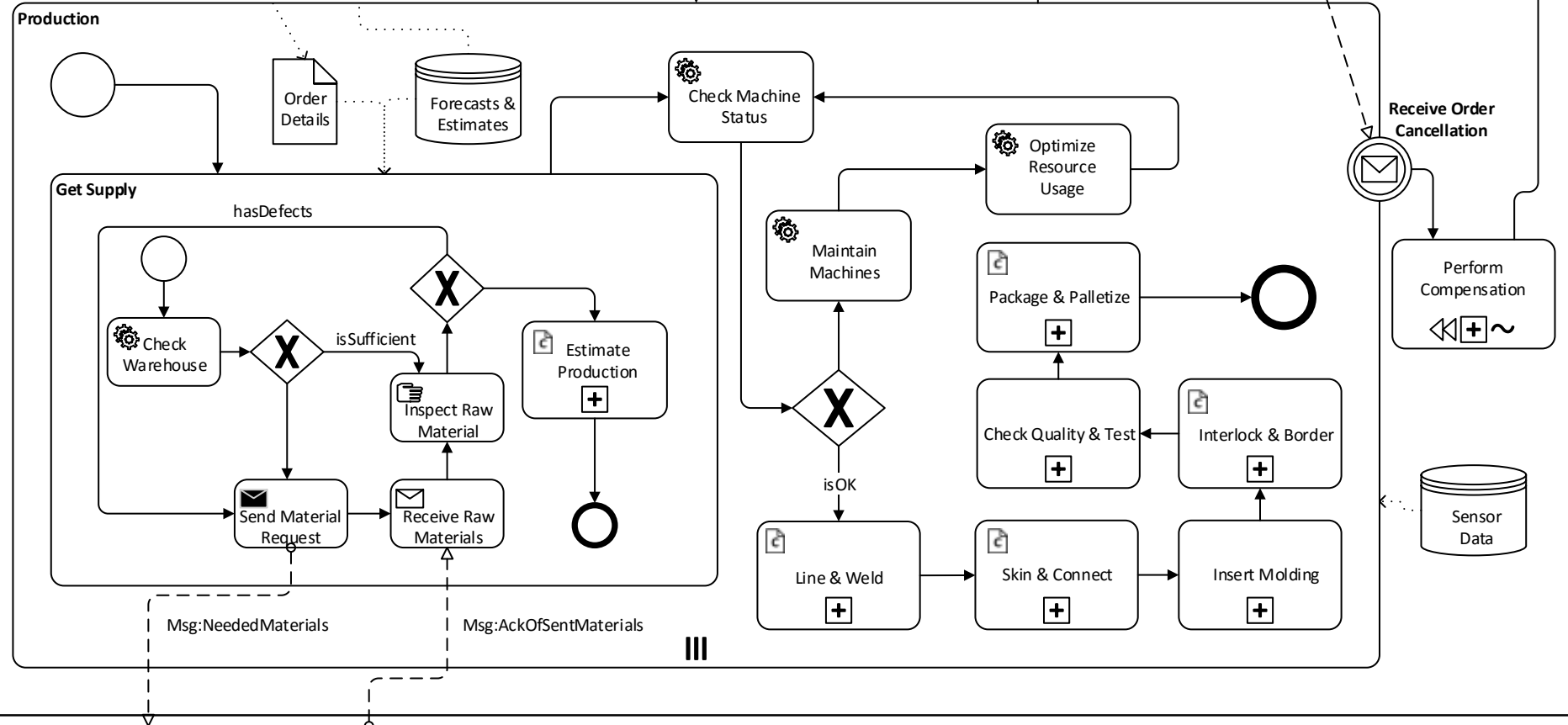
CUSTOMER (Individuals, Super-Markets, Premium-Clients, Industrial-Clients)

Marketing & Sales



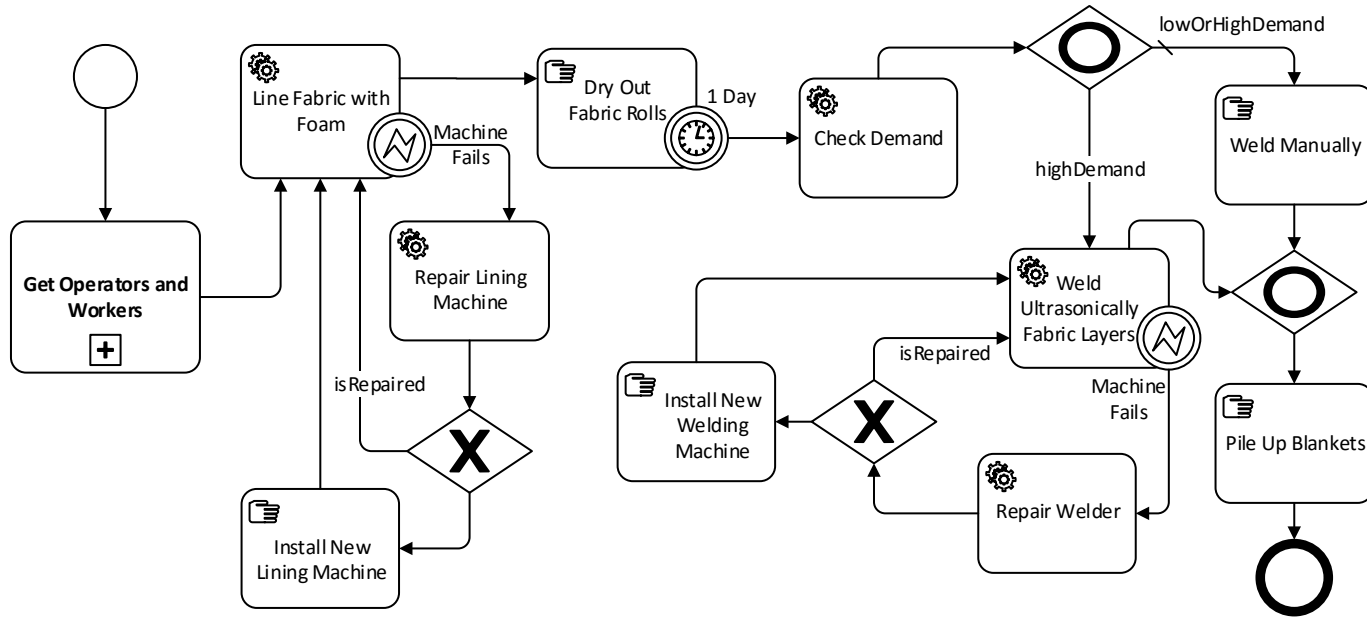
Electronic Blanket Producer

Operations & Manufacturing

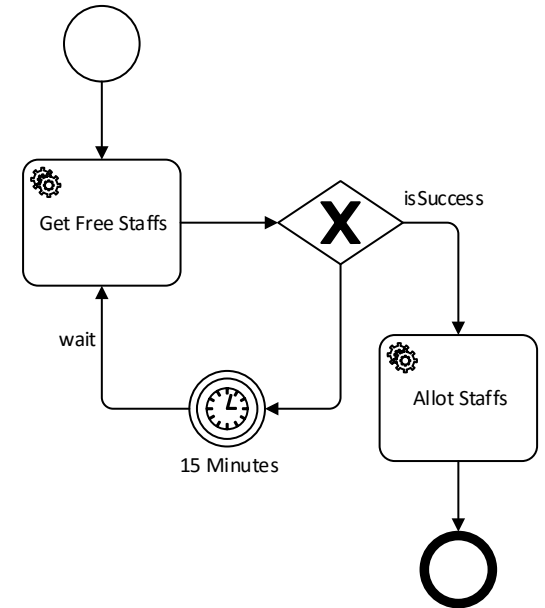


Raw Material Suppliers for Blanket and Electrical Equipments

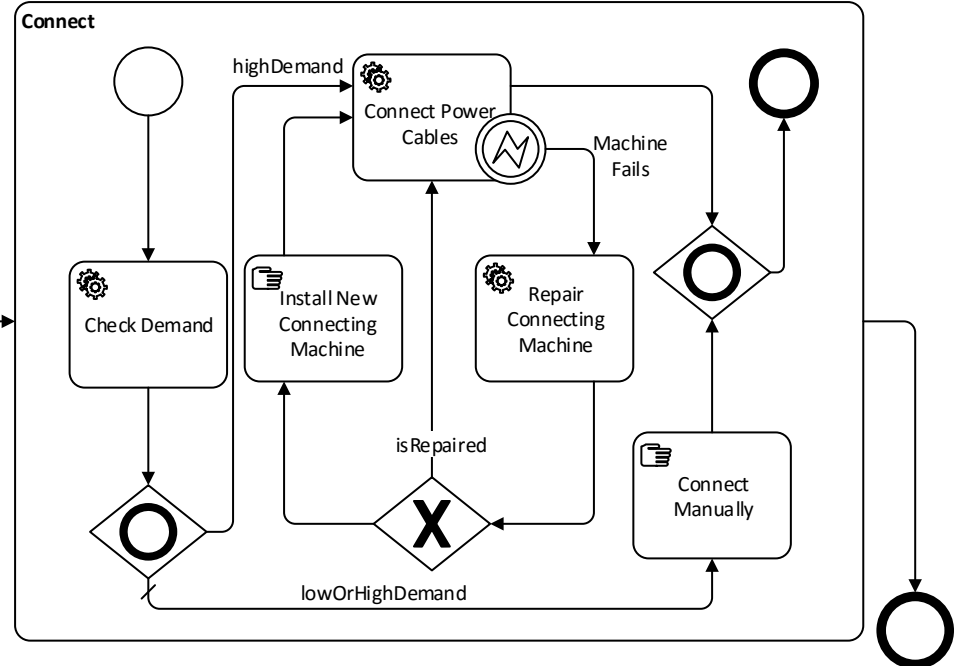
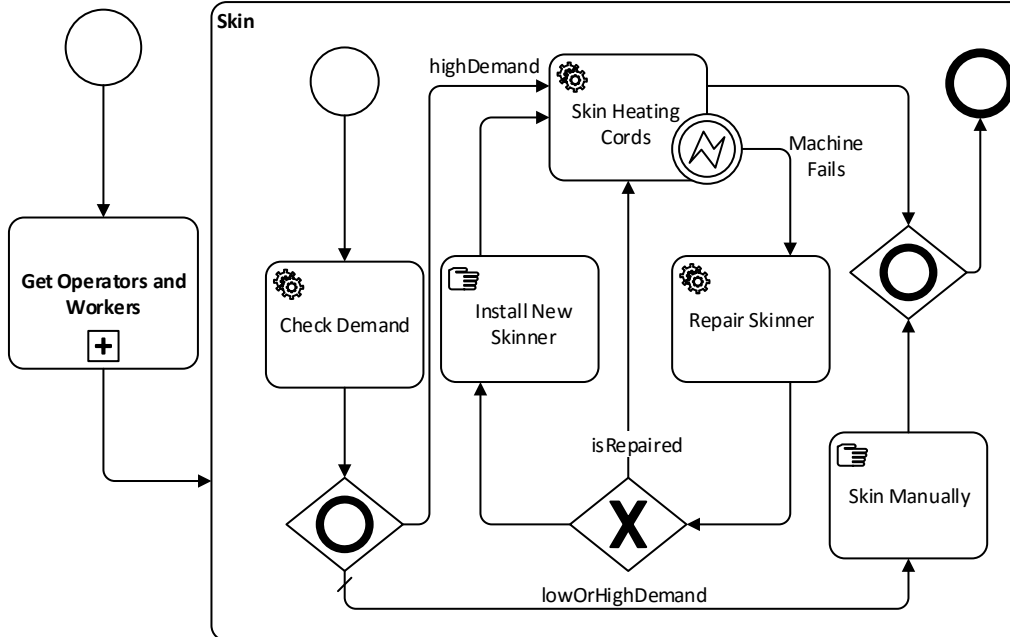
Line & Weld



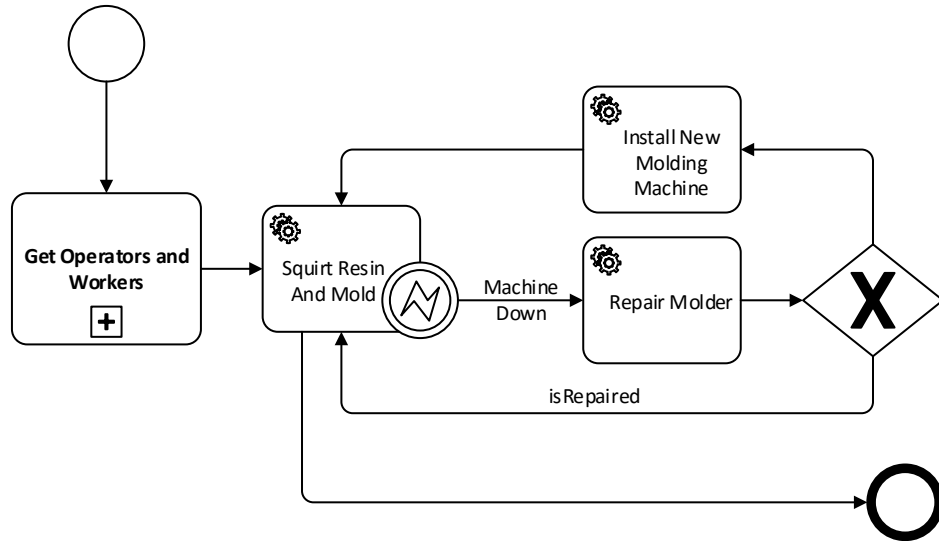
Get Operators and Workers



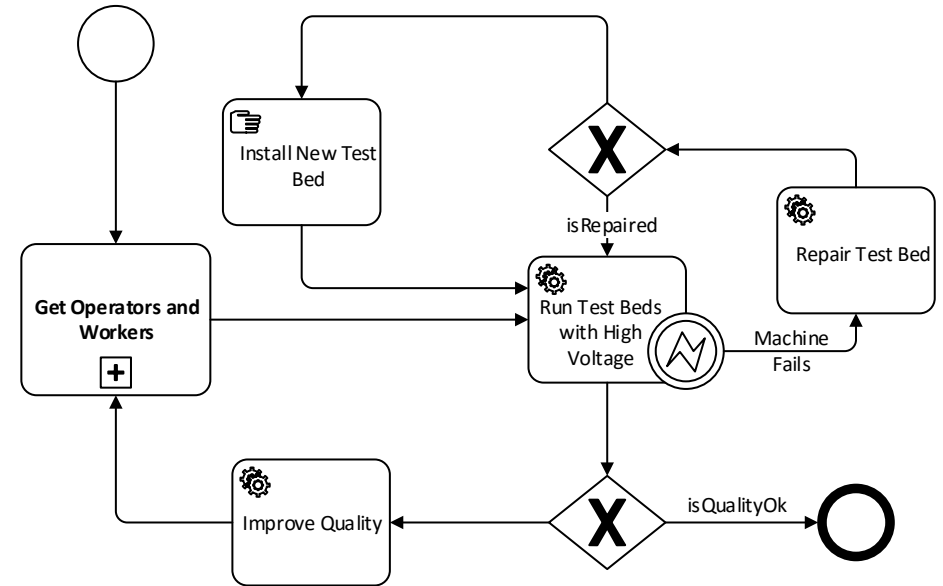
Skin & Connect



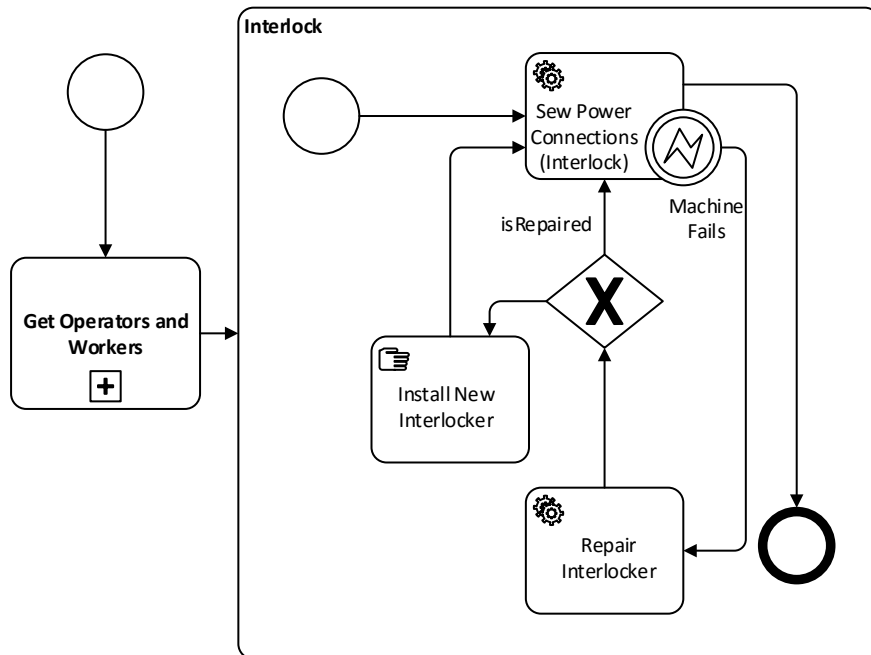
Insert Molding



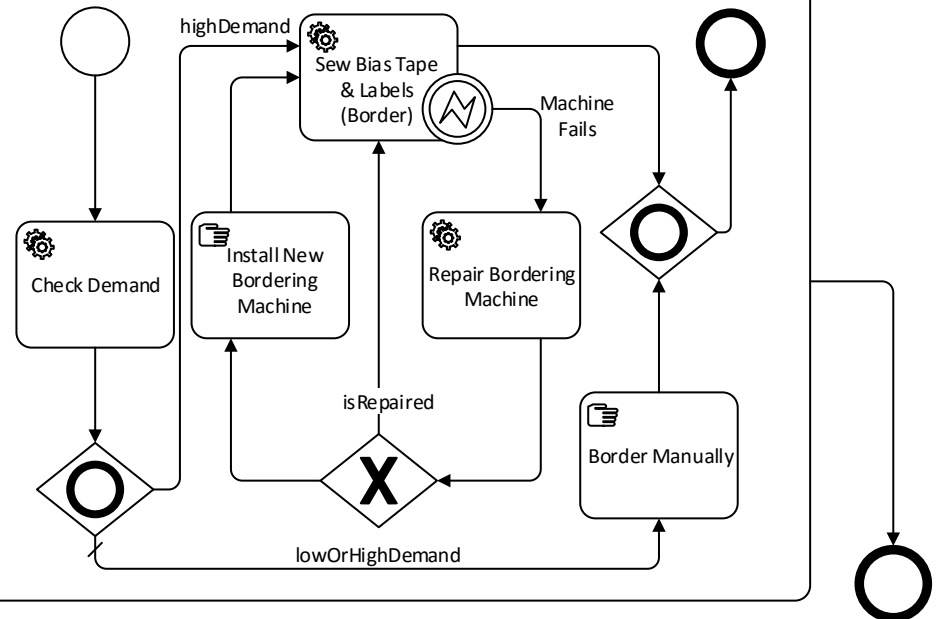
Check Quality & Test



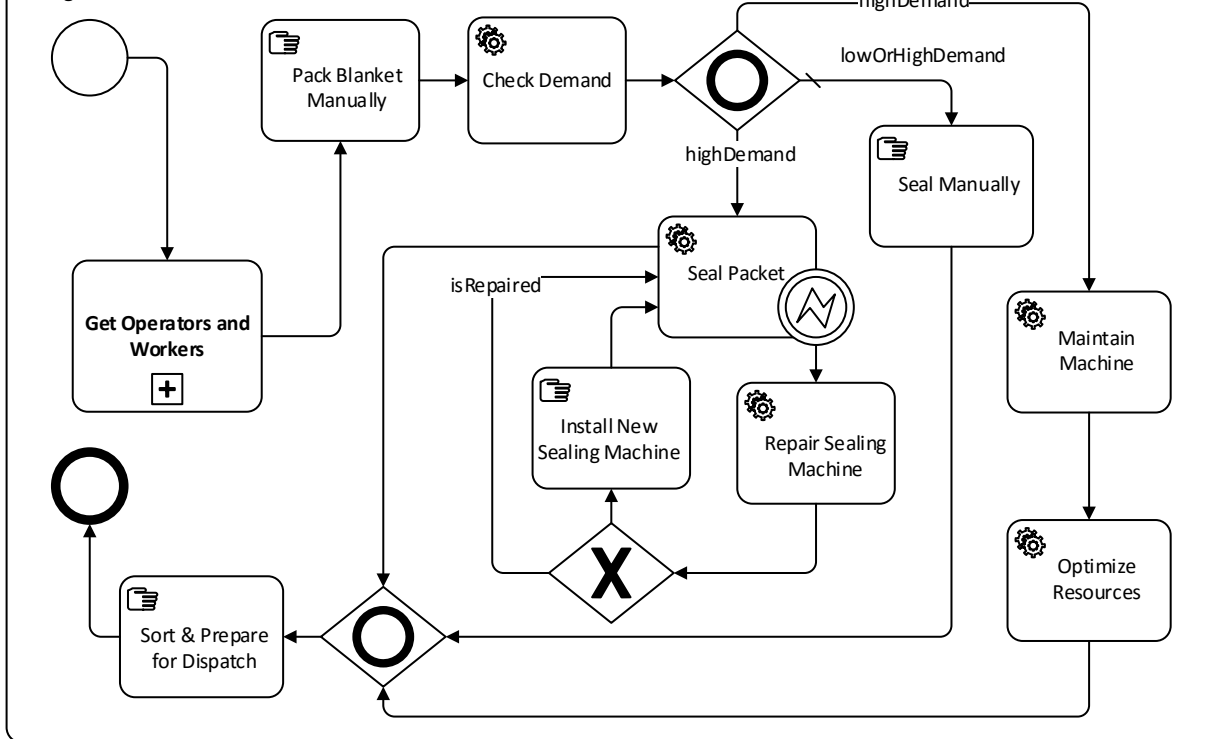
Interlock & Border



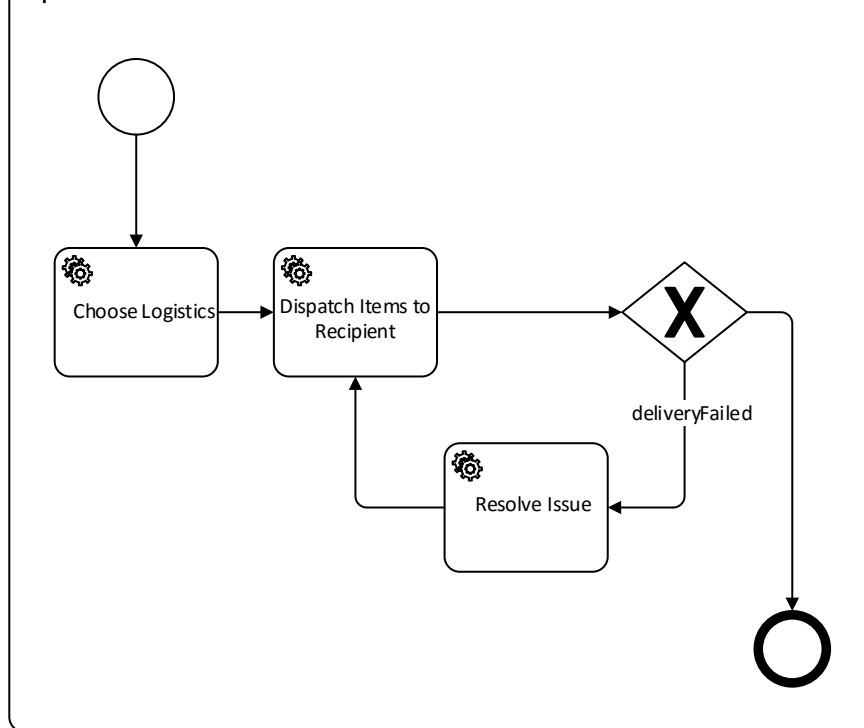
Border



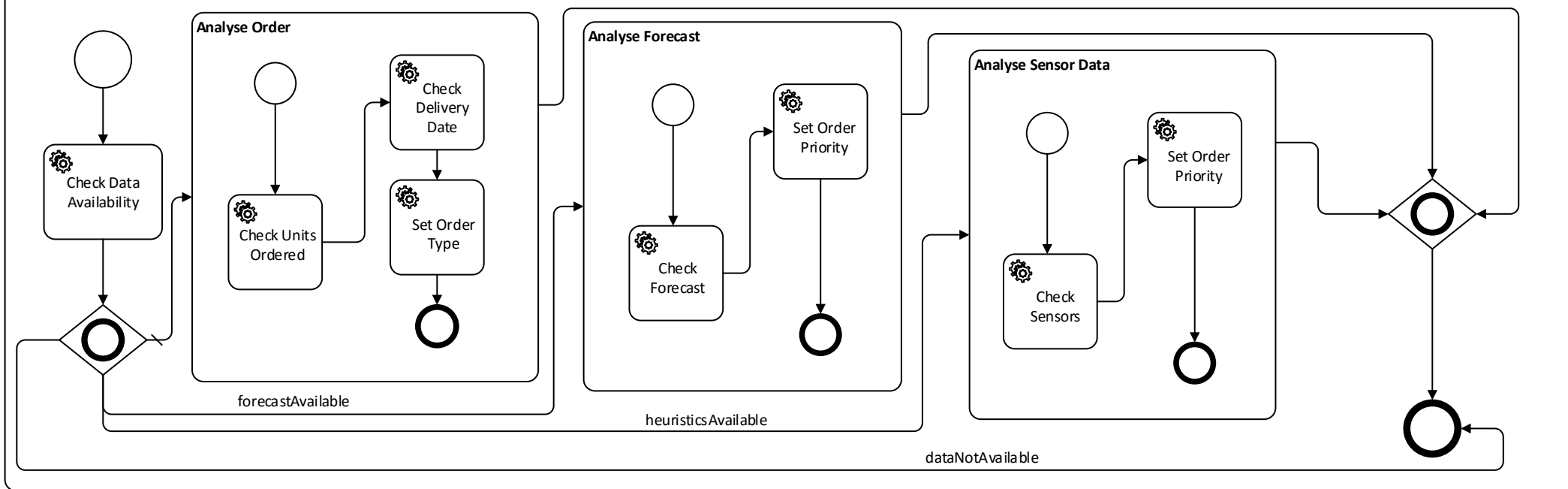
Package & Palletize



Ship EBlankets



Estimate Production



Perform Compensation



Stop Production of
Specific Order



Renegotiate Order Deal
with the Client



Calculate Sum to Be
Returned to Client



Despatch already Produced
EBlankets



Maintain Log History
For Auditing

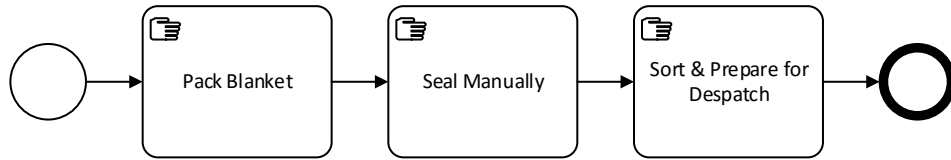


Calculate Sum to be
Paid by Client



Store the Produced EBlankets in the Inventory and Search for new Client





Context Definition:

#availableWorkers <= 10 & #unitsOrdered >= 1000 & %Sensors, status != 'Halted' | 'Stopped' | 'Malfunctioned'

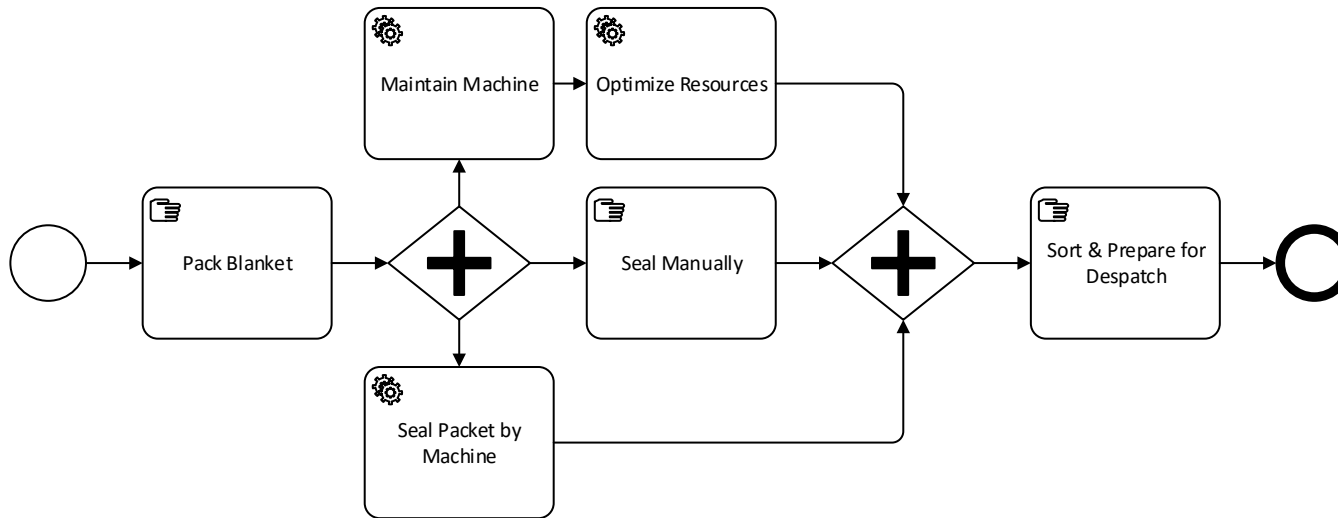
Realization Strategy: Manual Workflow

Intention (Goal): sealAndSortPackets

Sub-Intention: High Utilization of HR

Optimization Strategy: If demand is extremely low, employ less human power at work.

Weight: 0.30



Context Definition:

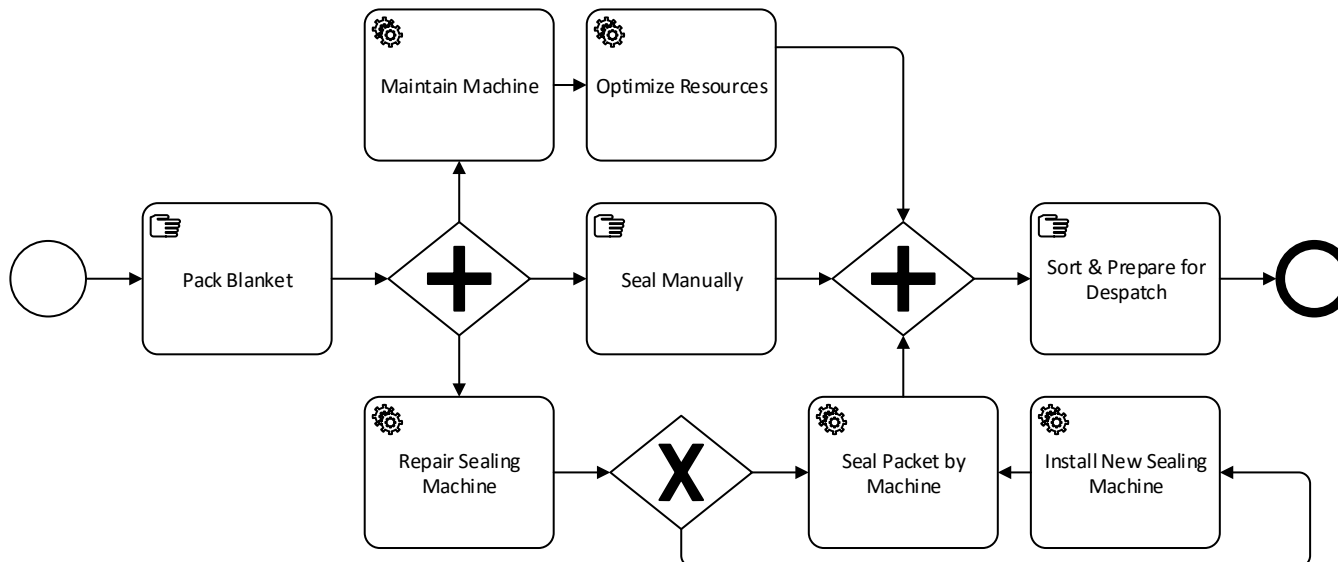
#availableWorkers <= 10 & #unitsOrdered >= 1000 & %Sensors, status != 'Halted' | 'Stopped' | 'Malfunctioned'

Realization Strategy: Automated Workflow

Intention (Goal): sealAndSortPackets

Sub-Intention: High Utilization of HR and High-Throughput

Weight: 0.55



Context Definition:

#availableWorkers <= 10 & #unitsOrdered >= 1000 & %Sensors, status = 'Halted' | 'Stopped' | 'Malfunctioned'

Realization Strategy: Semi-Automated Workflow (Repairing)

Intention (Goal): sealAndSortPackets

Sub-Intention: High Utilization of HR and High-Throughput

Weight: 0.15