



Boost you production planning and scheduling capabilities

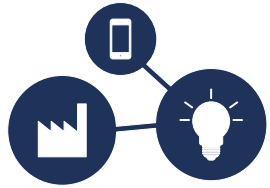
CAMELOT / SAP SCM Forum 2017

Agenda

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| 1 | Starting Point |
| 2 | CAMELOT's innovative enhancements for SAP APO PP/DS |
| 3 | CAMELOT's Advanced Production Scheduling |
| 4 | Overview S/4HANA Advanced Planning |
| 5 | Benefits of advanced production planning and scheduling |



Many manufacturing companies operate in a permanent firefighting mode in production caused by internal and external factors



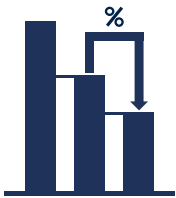
Challenges

- ▶ Do markets behave the same every day?
- ▶ Do I know my exact customer demand?
- ▶ Has planning become easier over time?



Typical measures

- ▶ Too many meetings to overcome missing transparency
- ▶ Integrated systems are bypassed by MS Excel planning
- ▶ Rescheduling rush orders to meet customer deadlines



Business Impact

- ▶ Too much inventory on various levels (RAW, WIP, finished goods)
- ▶ Large size planning departments performing non value-add tasks
- ▶ Inaccurate or outdated information towards customers



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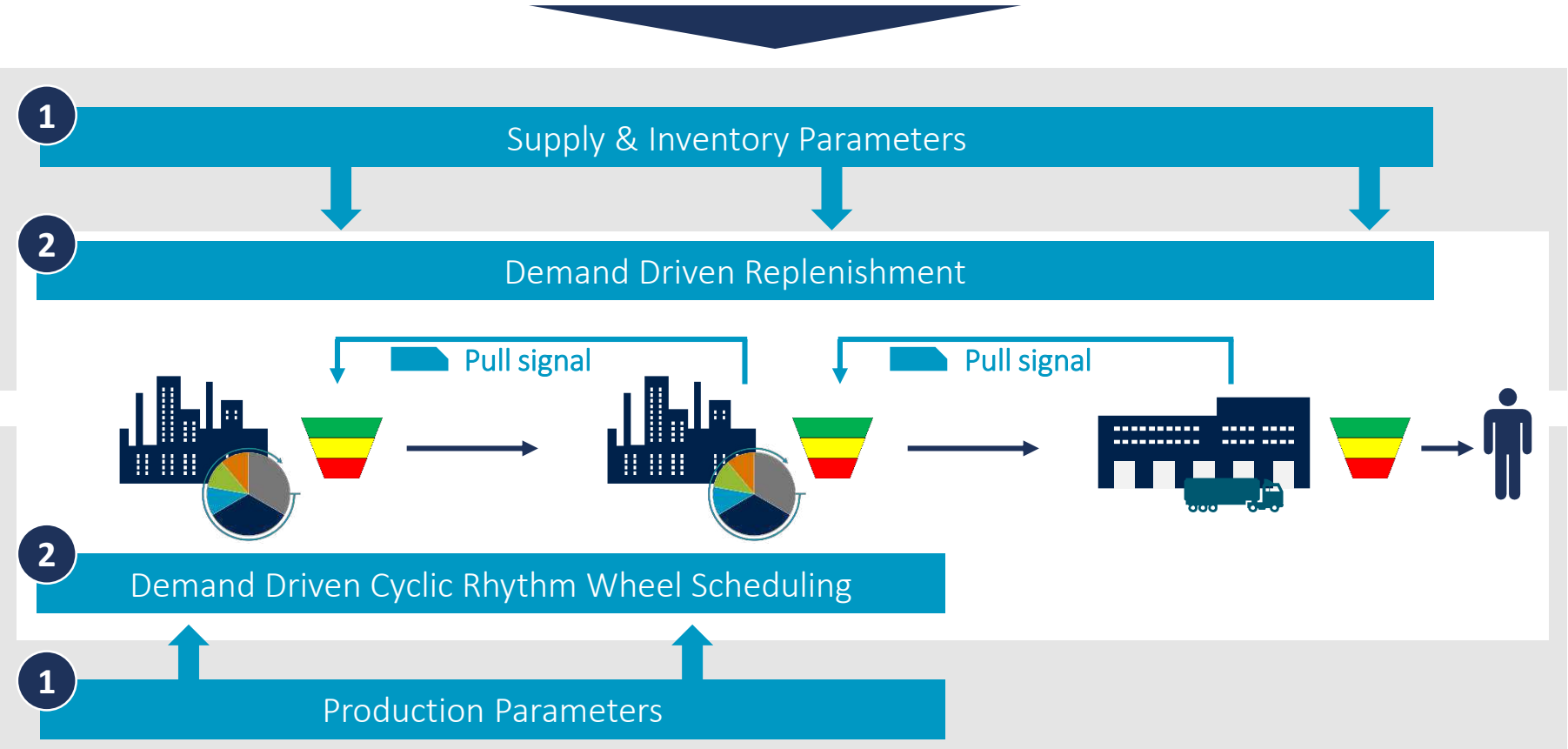
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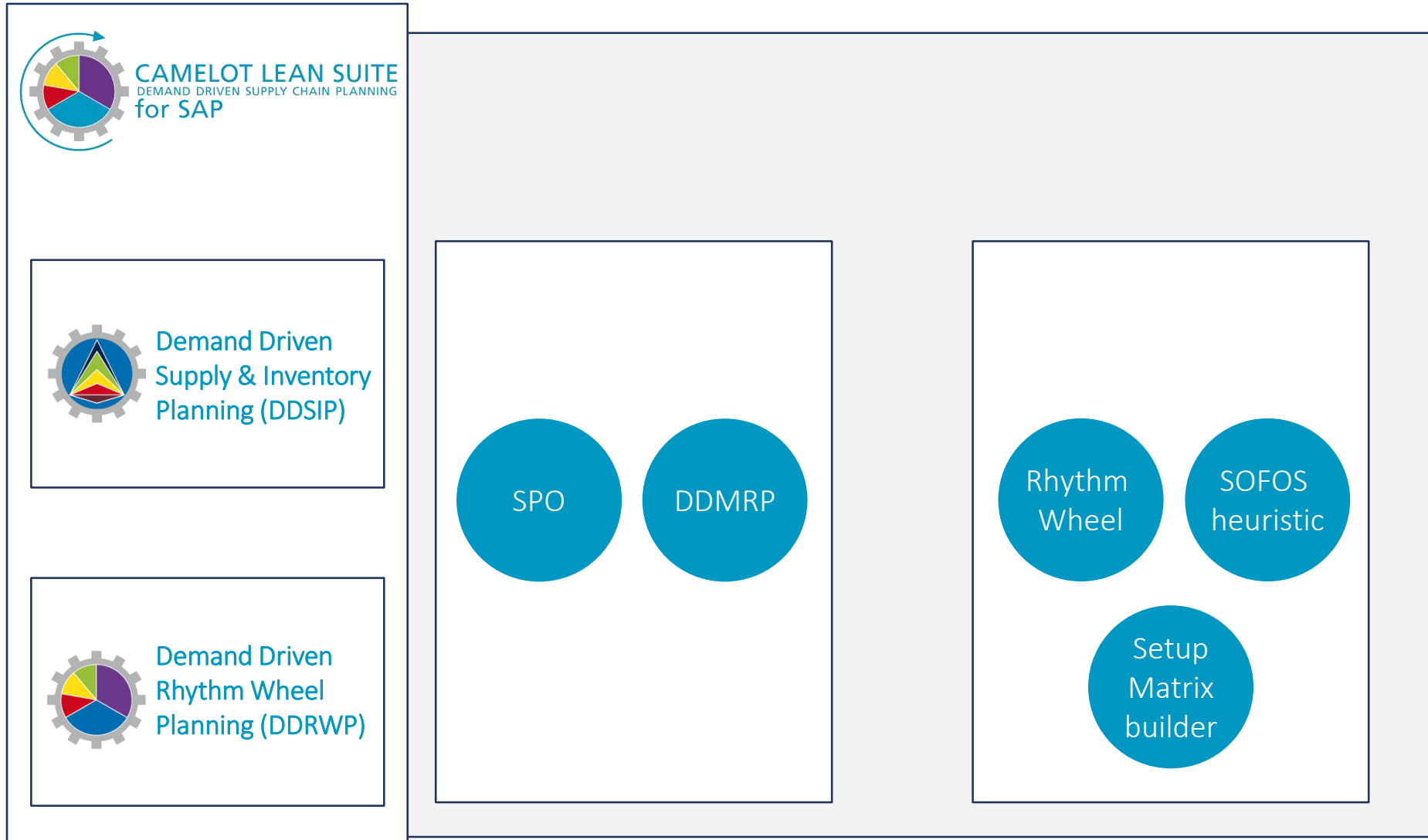
Innovative Camelot SAP APO enhancements are supporting organizations at all stages along their supply chain



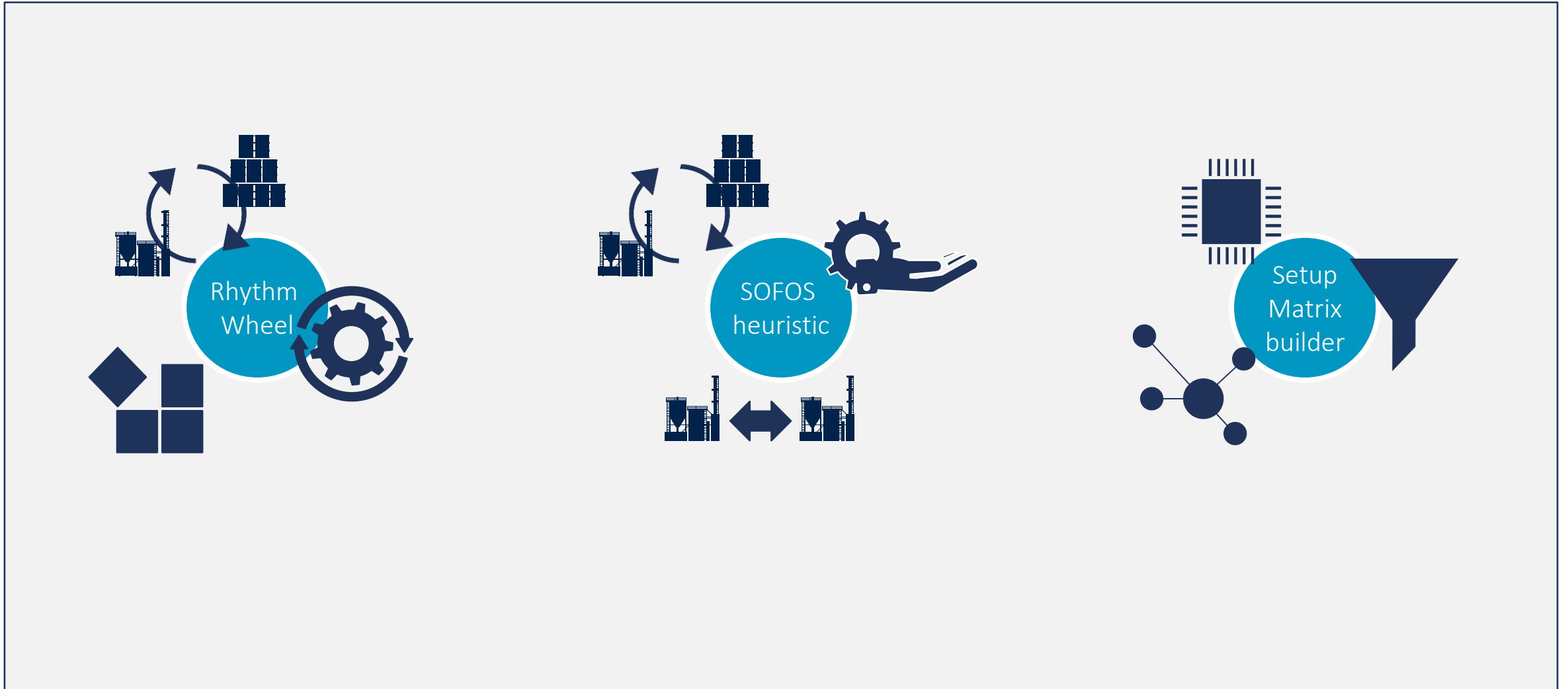
- 1 Supply chain configuration: End to End synchronization of planning parameters
- 2 Demand Driven Replenishment and production planning



The Camelot LEAN Suite is covering all major elements of end to end demand driven supply chain planning



Selected key features of Camelot's PP/DS planning innovations

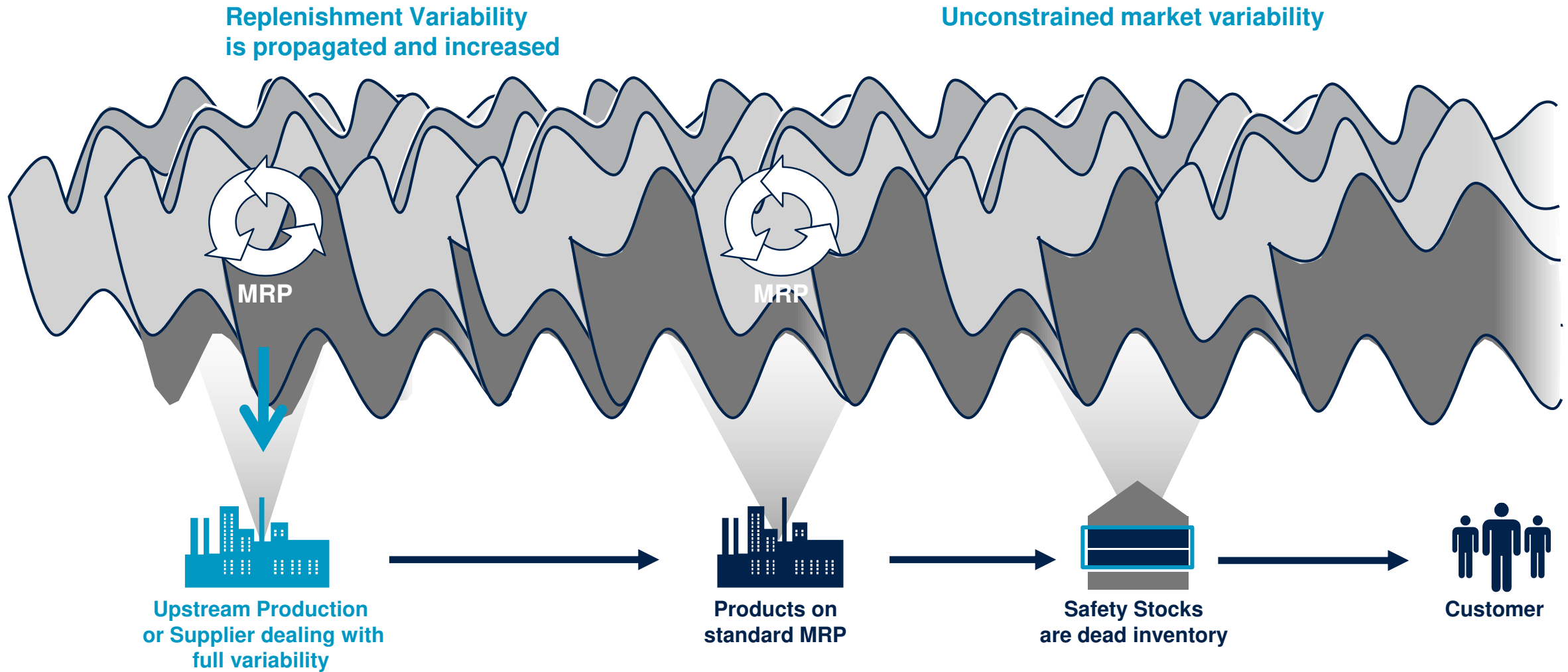


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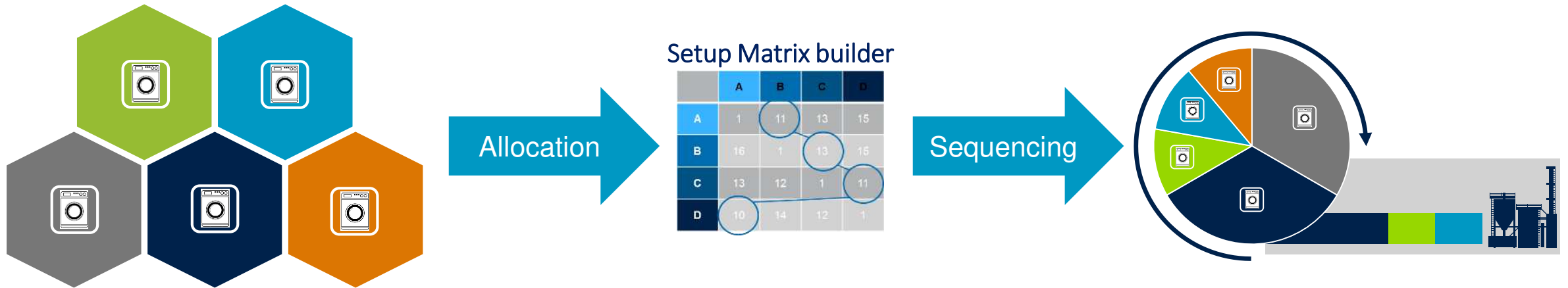
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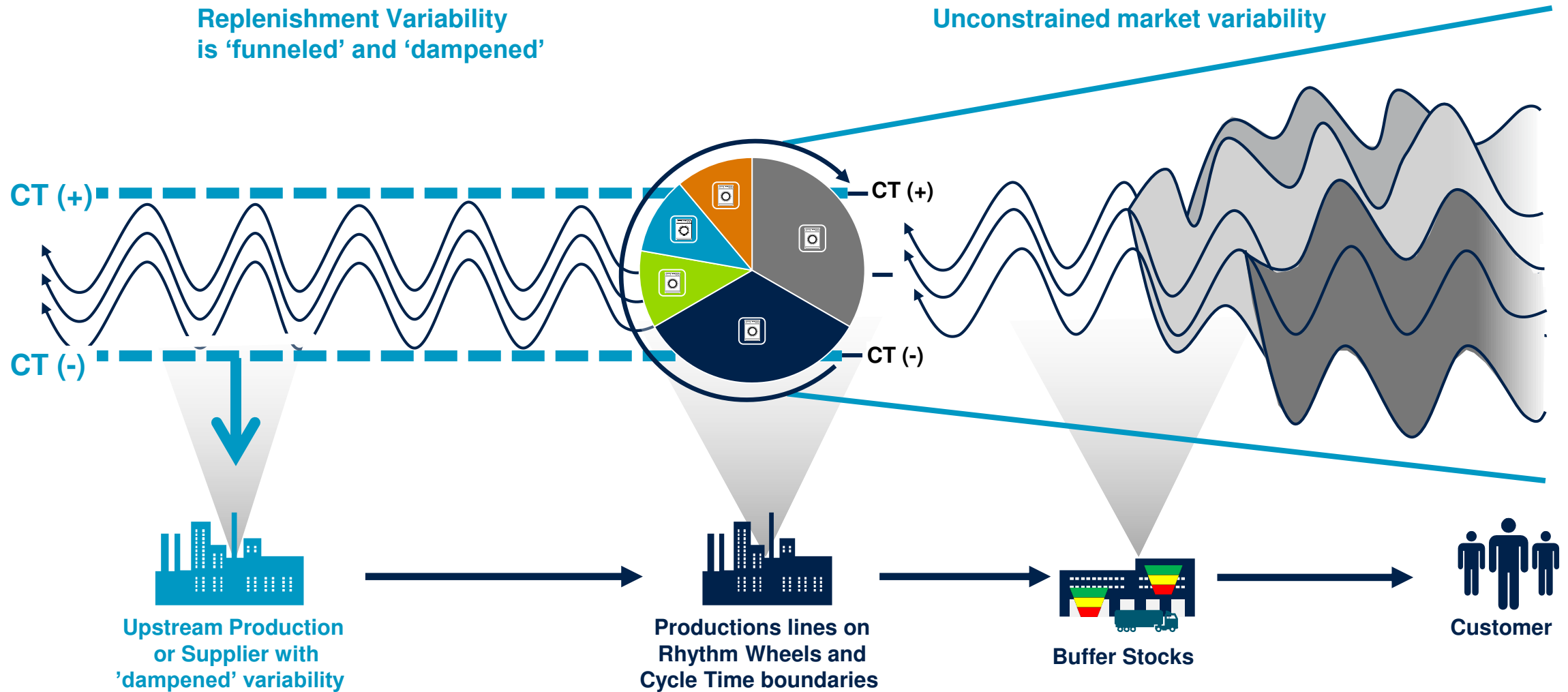
Standard production planning is reacting and overamplifying every demand fluctuation



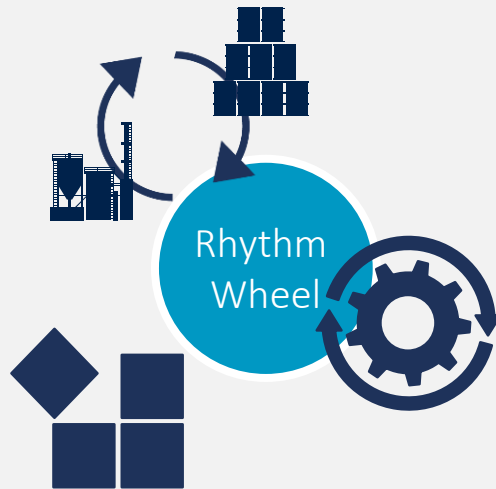
Making use of the Setup Matrix Builder a Rhythm Wheel Design defines the optimum production sequence for the given product portfolio per production resource



Rhythm Wheel planning is actively funneling and dampening customer demand volatility using active consumption of inventory buffers and cyclic scheduling



Selected key features of Camelot's Rhythm Wheel



The Rhythm Wheel Design sequence is scheduled based on customer demand and checked against capacity availability and material shortages to ensure reliable information



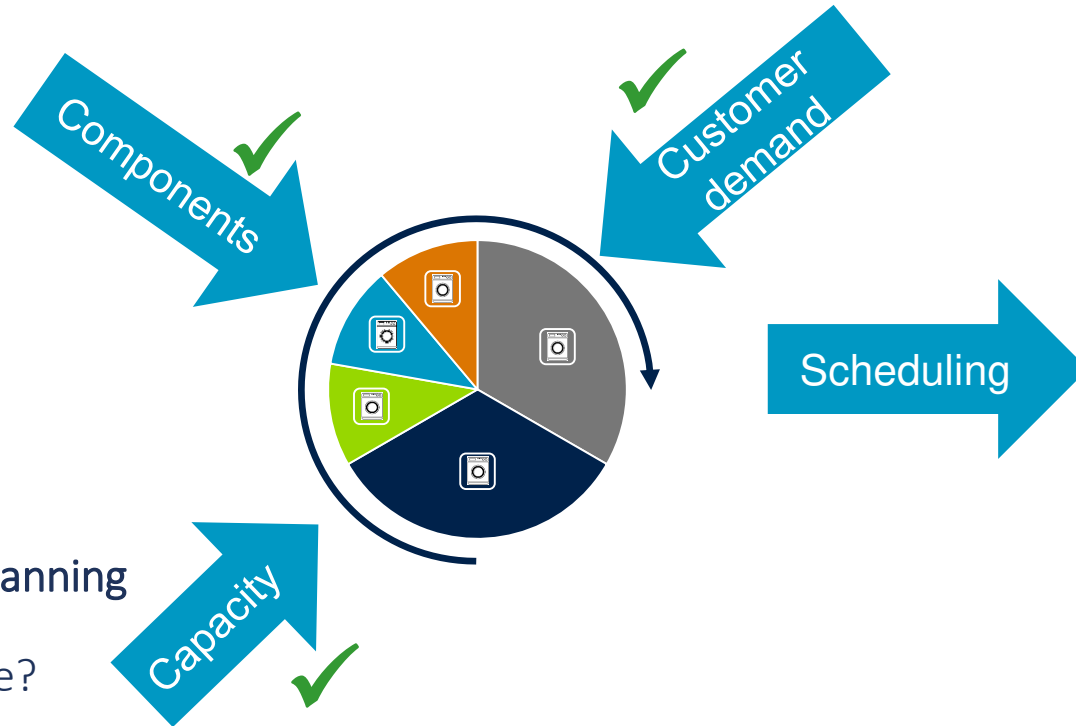
Material constrained planning:



Demand driven planning

▶ Do we meet customer demand?

- ▶ Are sufficient components available?
- ▶ How to prioritize in case of capacity issues?



Capacity constrained planning

- ▶ Is sufficient capacity available?
- ▶ How to prioritize in case of capacity issues?



The Rhythm Wheel Heuristic can prioritize orders in case of constraints based on the overall supply chain strategy



Material constrained planning:

- ▶ Are sufficient components available?
- ▶ How to prioritize in case of capacity issues?



Demand driven planning

- ▶ Do we meet customer demand?



Component

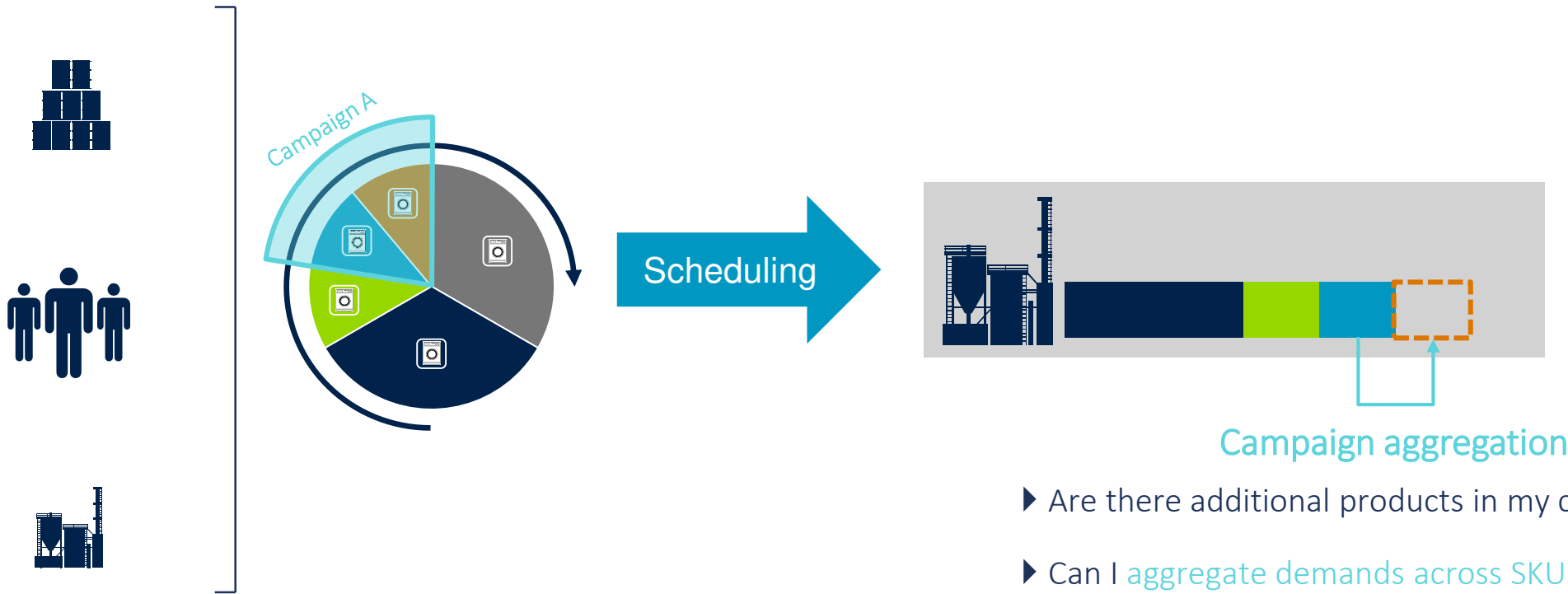


Capacity constrained planning

- ▶ Is sufficient capacity available?
- ▶ How to prioritize in case of capacity issues?



The Rhythm Wheel Heuristic can automatically group campaigns across SKUs ensuring efficient campaign production



Campaign aggregation

- ▶ Are there additional products in my campaign
- ▶ Can I **aggregate demands across SKUs** to increase my campaign size?
- ▶ Which **minimum campaign size** do I need to **consider**?
- ▶ Can I **automatically group** these together

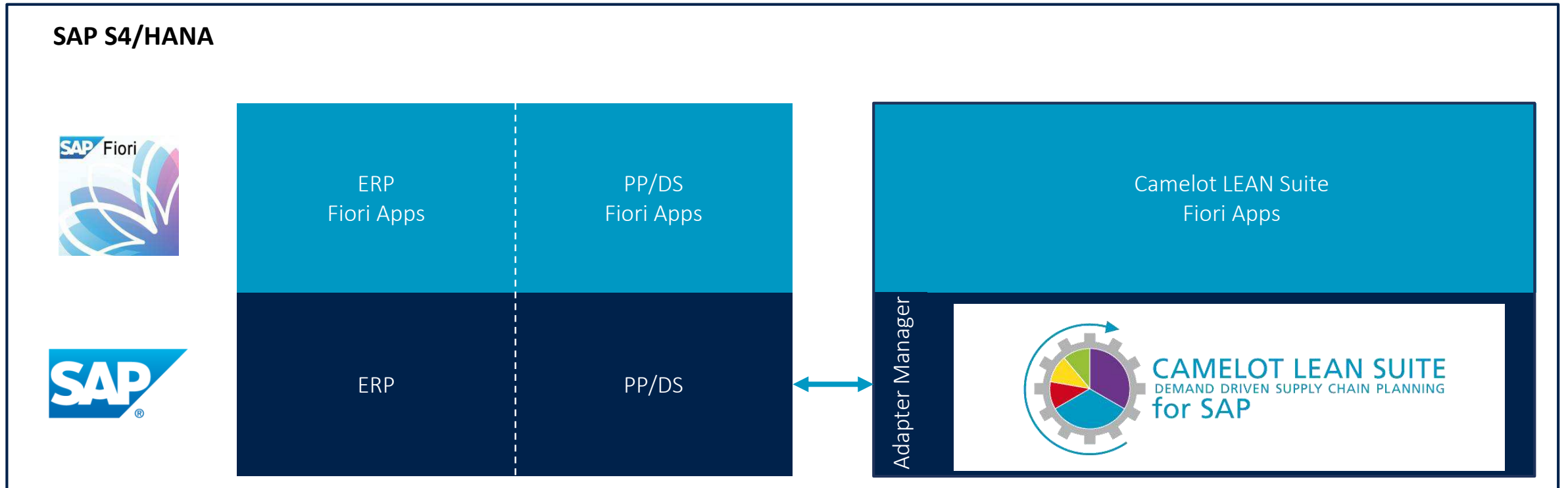


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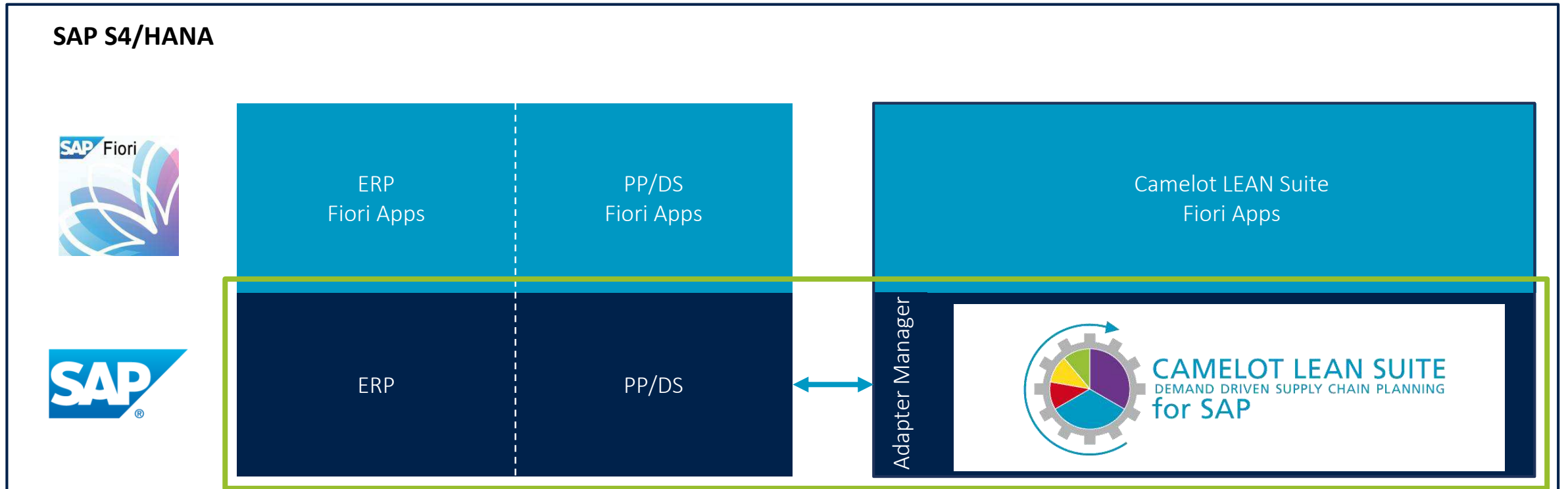
The CAMELOT LEAN Suite is fully embedded into SAP S/4HANA ensuring full usage of available Master and Transactional data



- ▶ CAMELOT LEAN Suite on premise leverages SAP S/4HANA with advanced planning solutions
- ▶ CAMELOT LEAN Suite is the first SAP Europe co-innovative planning solution within SAP S/4HANA
- ▶ CAMELOT LEAN Suite leverages SAP S/4HANA Master data and Transactional data



The integration of PP/DS into the ERP environment offers clear prioritization against costing elements in every automated planning decision



Material constrained planning:



Capacity constrained planning



Demand driven planning

▶ Prioritize against minimum cost for components

▶ Prioritize against capacity expenditures

▶ Prioritize against customer margins



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Advanced production planning and scheduling can bring your operations to the next level of performance



Enablers:

- ▶ Automated production planning and scheduling
- ▶ Integrated capacity and material constrained planning
- ▶ Aligned Supply Chain parameterization



Functional Improvements¹⁾:

- ▶ Cut **demand volatility** on upstream production processes **in half**
- ▶ Incorporate **supply chain prioritization** into your tactical planning
- ▶ Give **immediate reliable feedback** to customers



Business Benefits¹⁾:

- ▶ Required **number of planners reduced by up to 30%**
- ▶ **Changeover was reduced by more than a third**
- ▶ **SLA was increased from 95% to >99% in just three month**

1) Based on customer projects



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