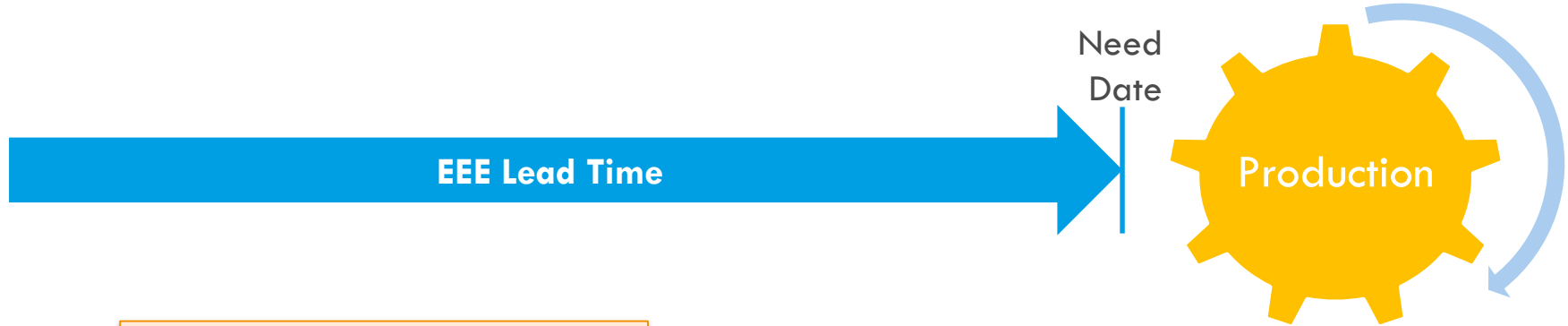




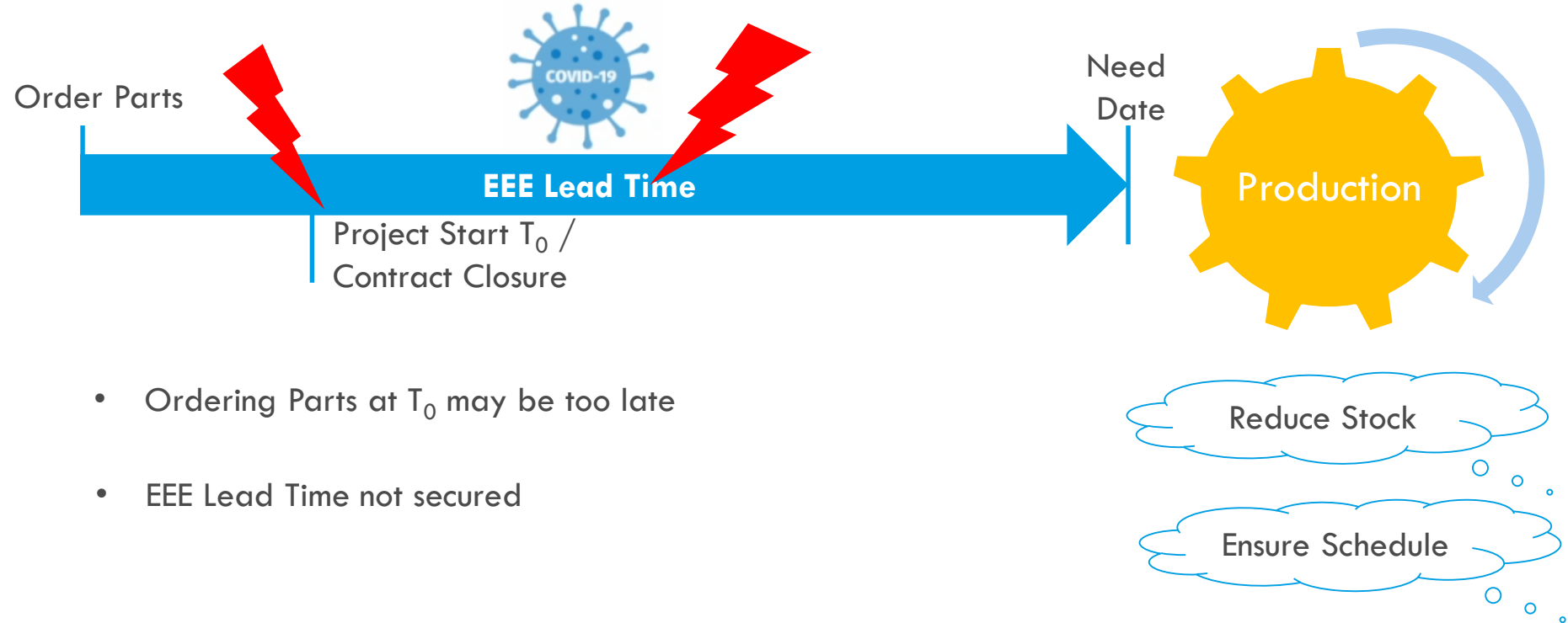
LESSONS LEARNED FOR THE SPACE EEE SUPPLY CHAIN WRT COVID-19

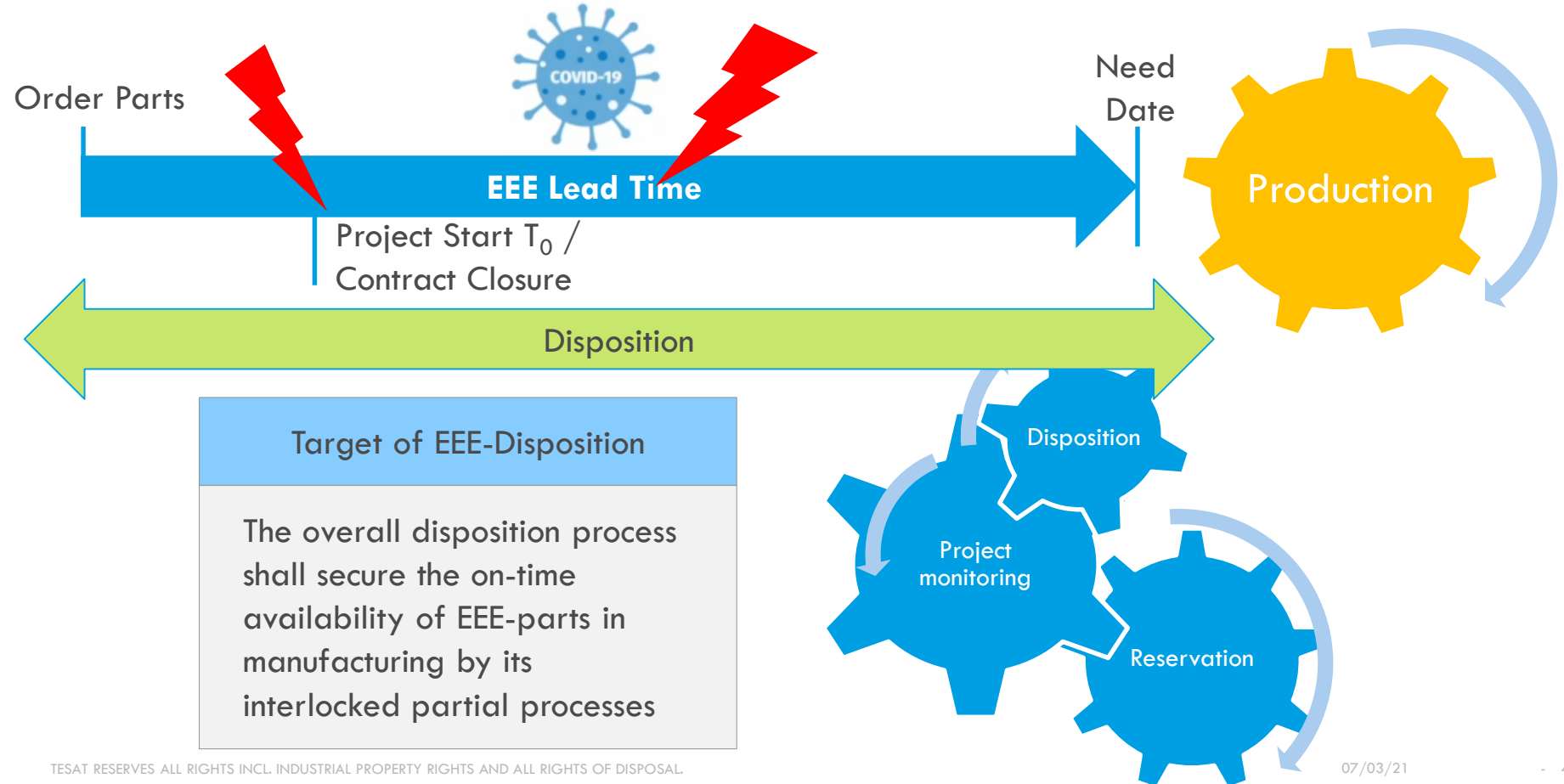
JENS HAALA — MARCH 2021



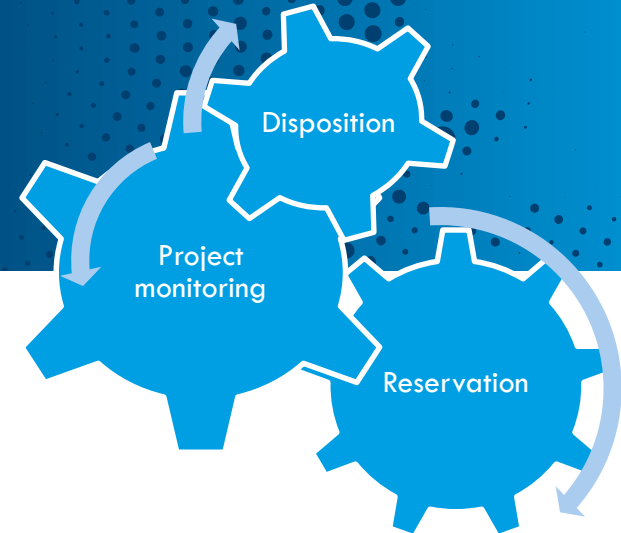
Determining EEE Lead Time:

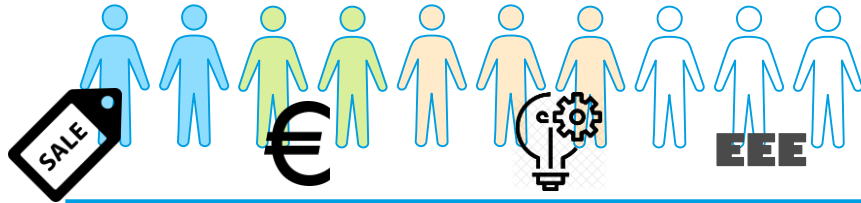
- Vendor Information
- Experience
- Stock





DISPOSITION





Committee consisting of sales, finance, development and EEE

Disposition meeting

Disposition decision

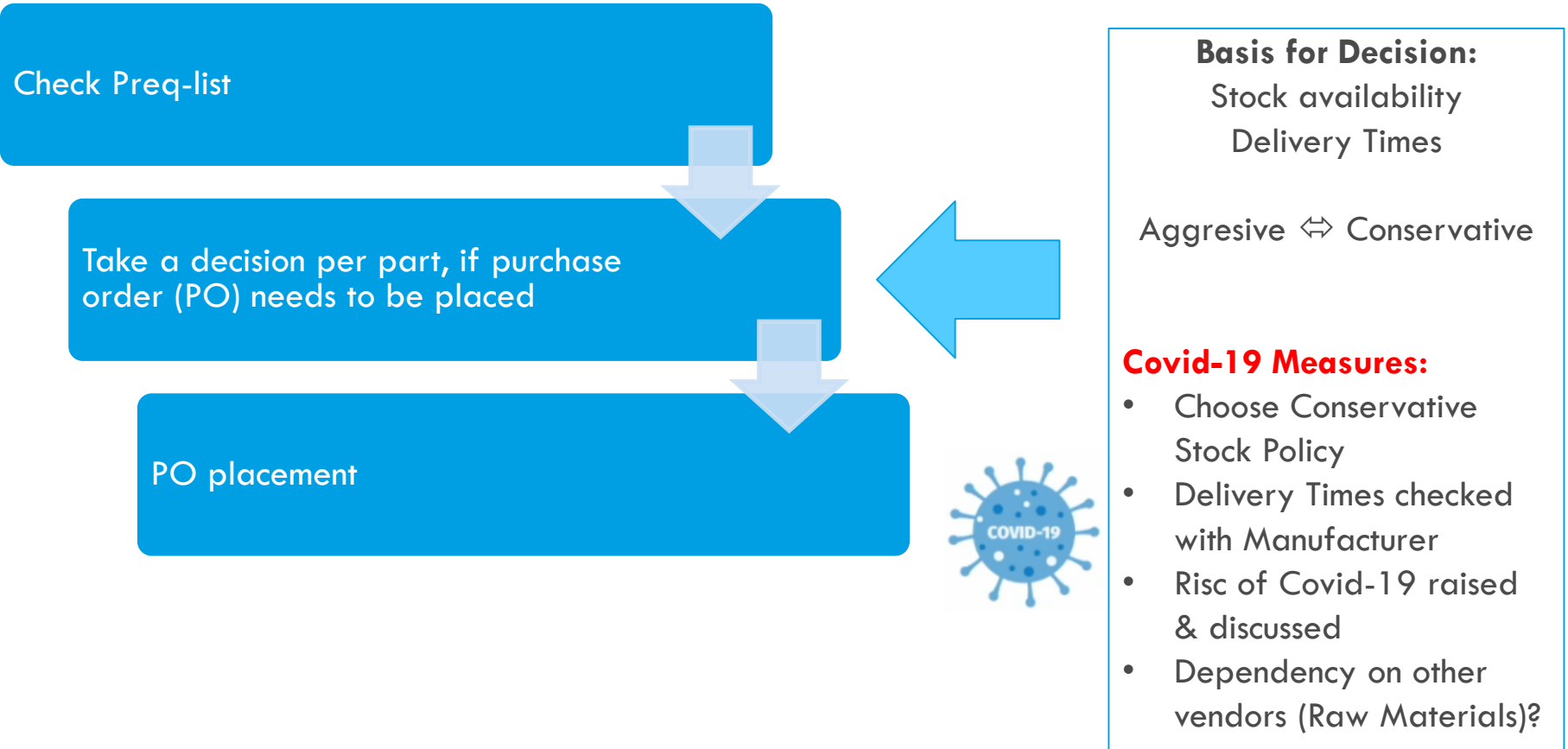
Disposition Protocol

The rolling forecast of sales for the coming
~ **12 months** is discussed

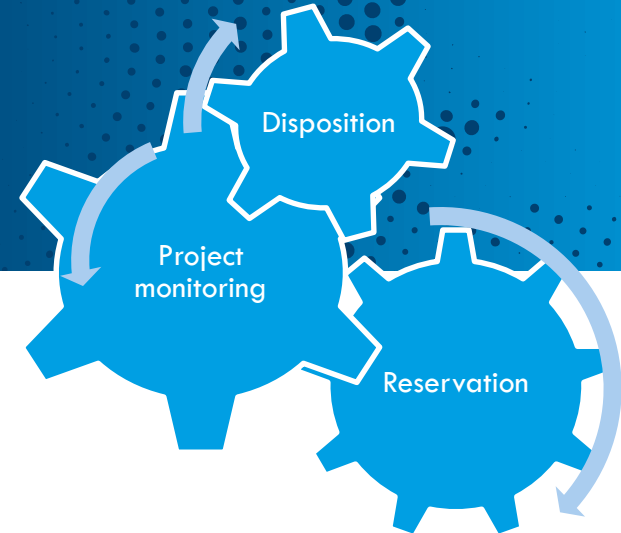
Common decision of forecast is made

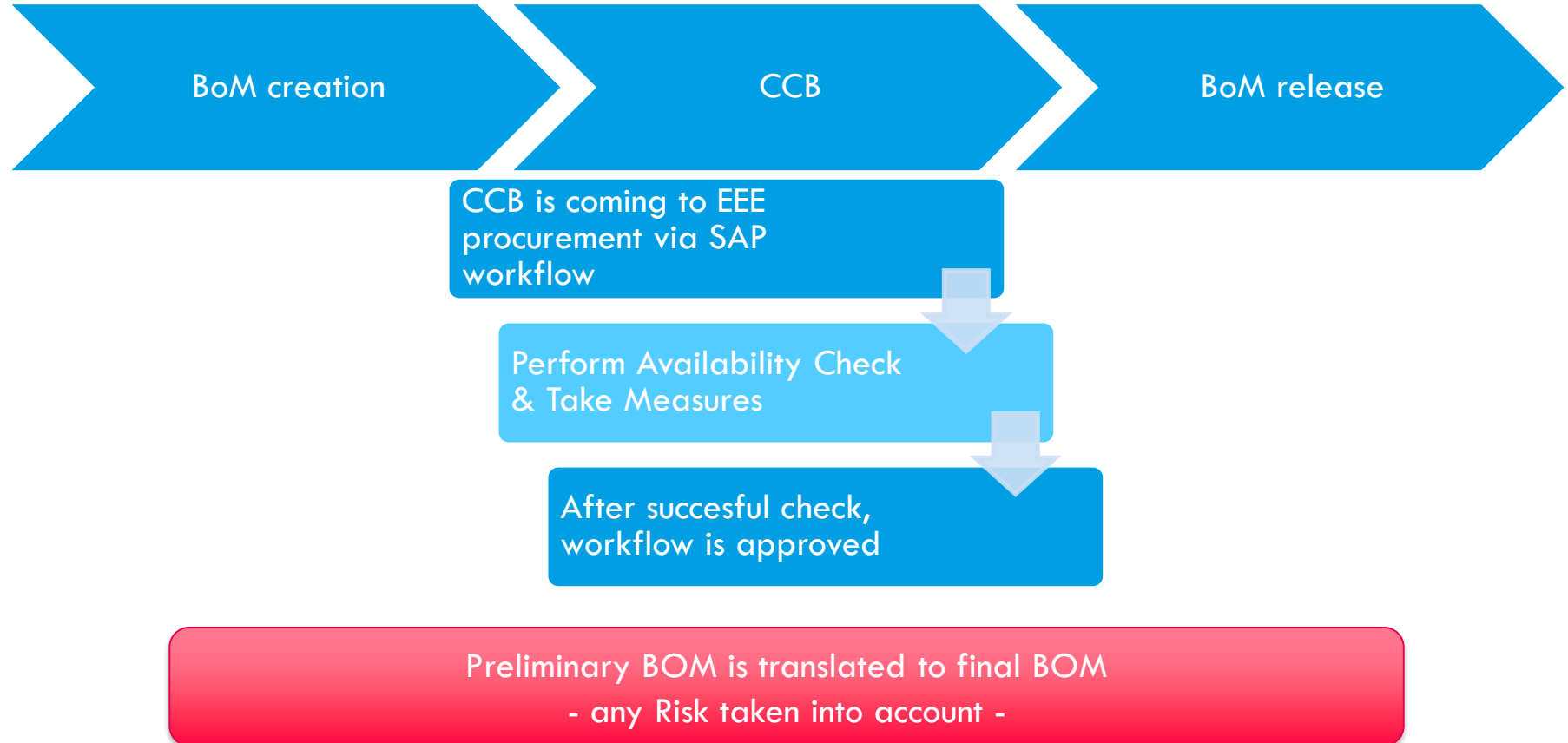
[illegible]

Purchase Requisition (Preq) List



PROJECT MONITORING

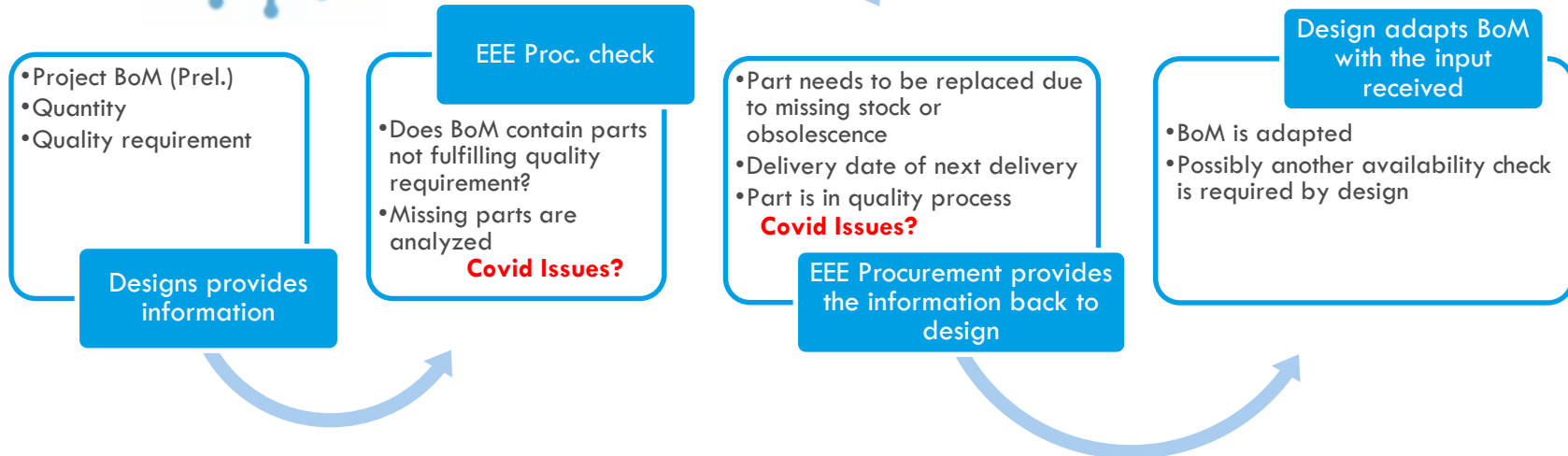




Target

Performing availability checks for projects
Identify Potential Issues and Risks

Early Mitigation



Kick-Off

Project Kick-off: Relevant Frame BoM told to EEE

Allocation of a
project to a
frame BoM

Development allocates project to a frame BoM (see disposition)
The demand in the system will be adapted

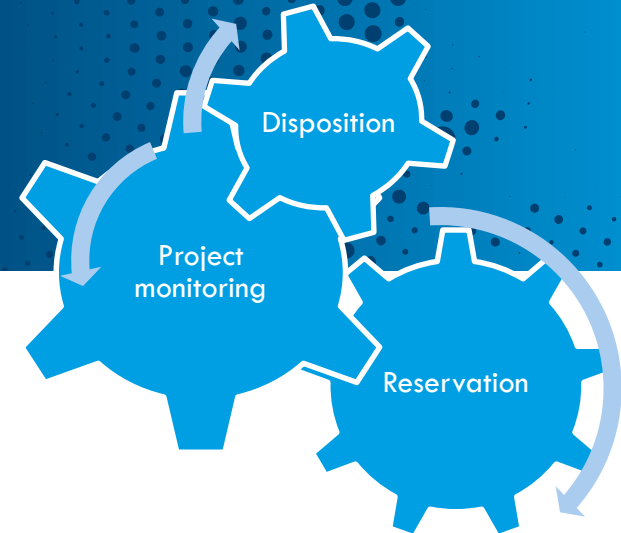
Implementation of
project BoM into
SAP

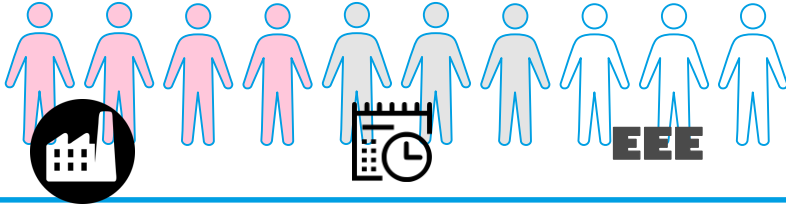
Design implements the project BoM into SAP

Correct settlement
of needs

The quantity of the corresponding frame BoM will be
reduced by the quantity of the demand of the project
BoM in order to secure the correct demand in SAP

RESERVATION





Committee consisting of manufacturing, planning and EEE meets on a weekly basis

Run of reservation in SAP

Reservation meeting

Reservation protocol

Planning Department:
Reservation in SAP with the kit starting

Manufacturing, planning and EEE:
Check situation/info → Get complete Picture

EEE checks situation and missing parts
→ Influence on production
→ actions are triggered

RESERVIERUNGSPROTOKOLL

=neu									
12. Feb 20 draft									
= Wiederaufnahme nach bereits komplettem Kit wo tracking									
Blaue = in Process/ forciert									
INFO ZU PROJEKT									
Nr	Projekt	Projekt leiter	Kit-start	1. Res	Mat-no	Baugruppe	Anz	ERMittelte FEHLTEILE	STATUS / INFO
								Materialkurztext	(Prüfbefunde, Liefertermine, actions, Zusatzinformation.....)
									Matrnummern für Konstruktion: x.xxx.xxx.xxx
3869	IR18L_1T	Fr Politi	10.3.20	5.2.20	T.M00.141.125	63.7957.220.00-A001_CONTROL_BOARD	13		x komplett
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	1 PFM + 5 FM	x Fehlteile
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	T.M00.035.330 5962-8773802VHA-OP77AL/QMLV	1 QM WEK erl gem PB161696/2 WE122737 einsetzbar, bitte zur Freigabe bei Frau Lauber melden
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	T.M00.038.325 RA.0203.103.58B-TFM-115-02-H-D-P	6 QT Bauteile aus Quarantänebestand auffassbar (210 st DC 0942) Relifing 19.1.17 erl. Gem neuer ESA Regelung MHD max 15 Jahre gültig ab 2.3.20 (gem email U Belz 30.1.20)
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	T.M00.089.876 5962R072601VZA-DAC1E1S101WGRQV*IL	6 Itarlager zugeordnet WE 103475 DC1511A & 116777 DC1601A
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	T.M00.090.168 5962R9865203VYC-UT54LVDS032LV	6 Itarlager zugeordnet WE 122440 DC1831
3829	OPTSKA1M	H Cluse	24.3.20	22.10.19	T.M00.137.284	63.7947.220.00-A001_CONTROL_BOARD_RF	6	T.M00.127.293 5962R1723601VXC-LMX2615WRQMLV	6 QM x WEK erl BT noch in LPC, Quali fertig,

Information if equipment is completed
or if there are missing parts

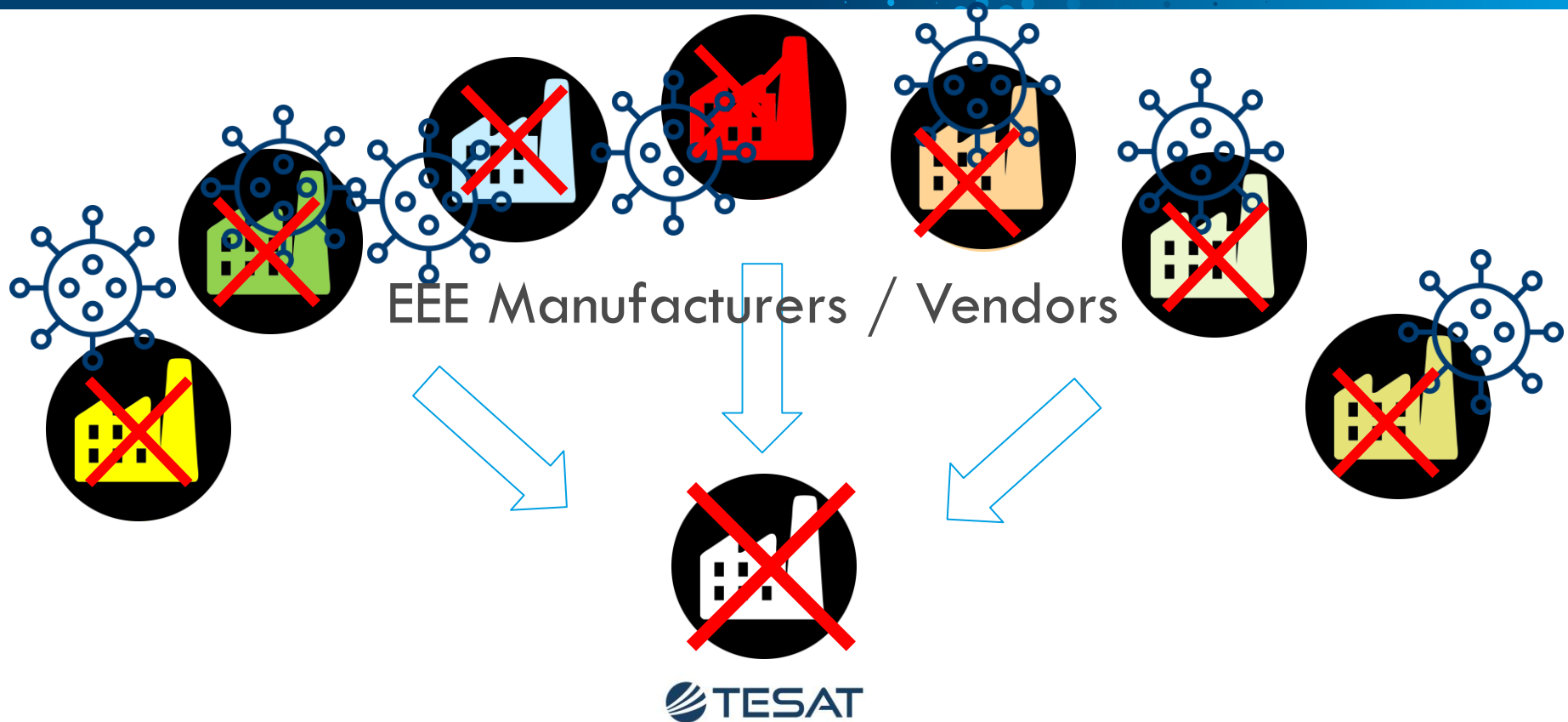
- » Weekly Meeting
- » 12 weeks ahead of start of production

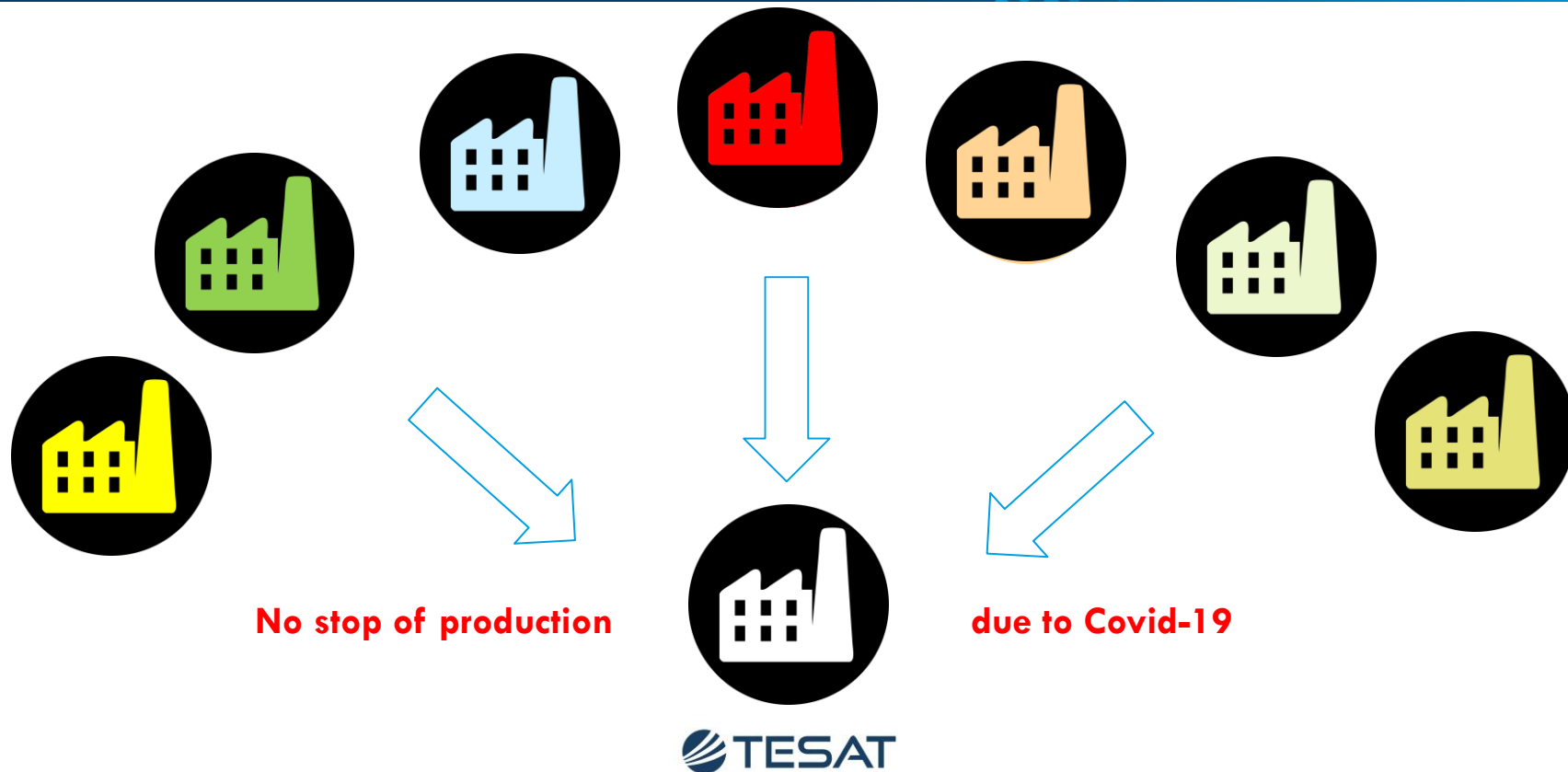
Corona-Measures

- » Weekly checks on Manufacturers:
 - » Delivery Date still valid
 - » Raw Materials; Force-Major @ Vendors etc; understand influence on production
 - » Track running Orders (NEW!)
- » Problem identified?
 - » Search for alternatives
 - » Shift Production
 - » Split Production



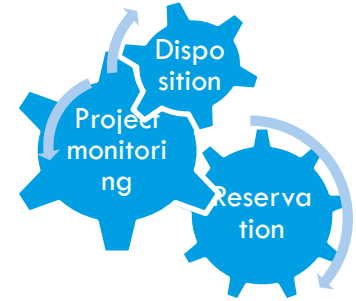
SUMMARY





» Disposition Processes are key - Including:

- » Disposition
- » Project Monitoring
- » Reservation



- » Go for conservative Disposition Strategy
- » Perform Availability Checks
- » Track EEE Orders closely

Thanks to

- » All Vendors for taking succesful Covid-19 measures
- » TESAT responsables for taking succesful measures



Stay Healthy!



THANK YOU FOR YOUR ATTENTION

Dr. Jens Haala
EEE Sales Manager

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