





### **Agenda**

- % Kooima: A practical example
- Operational Excellence: QRM
- Physical POLCA
- Digital POLCA
- Results























Laser Flat

Bend Flat

Laser Tube Bend Tube Outsourcing

Reaming

Knife Cell

Laser Cladding

**Grinding** 

Machining (Horizontal/Vertical/

Large)

Lathe

**Assembly** 

Welding

Water Jet

3D Laser

**Shipping** 





> 30%

GOAL

> 10%

Reduce lead times

Increase on time delivery



















# OPERATIONAL EXCELLENCE



Flow

**LEAN** 

**Mass Customization** 

**QRM** 

**Customer Specific** 

Other

(TOC, Agile, etc.)



#### **ENVIRONMENT**

#### **FOCUS**

#### **TOOLS**

**LEAN** 



Waste Reduction

8 Wastes
5S
SMED
Poka Yoke
KanBan

**Six Sigma** 



100% quality No variation

Six Sigma
Gage R&R
FMEA
ANOVA

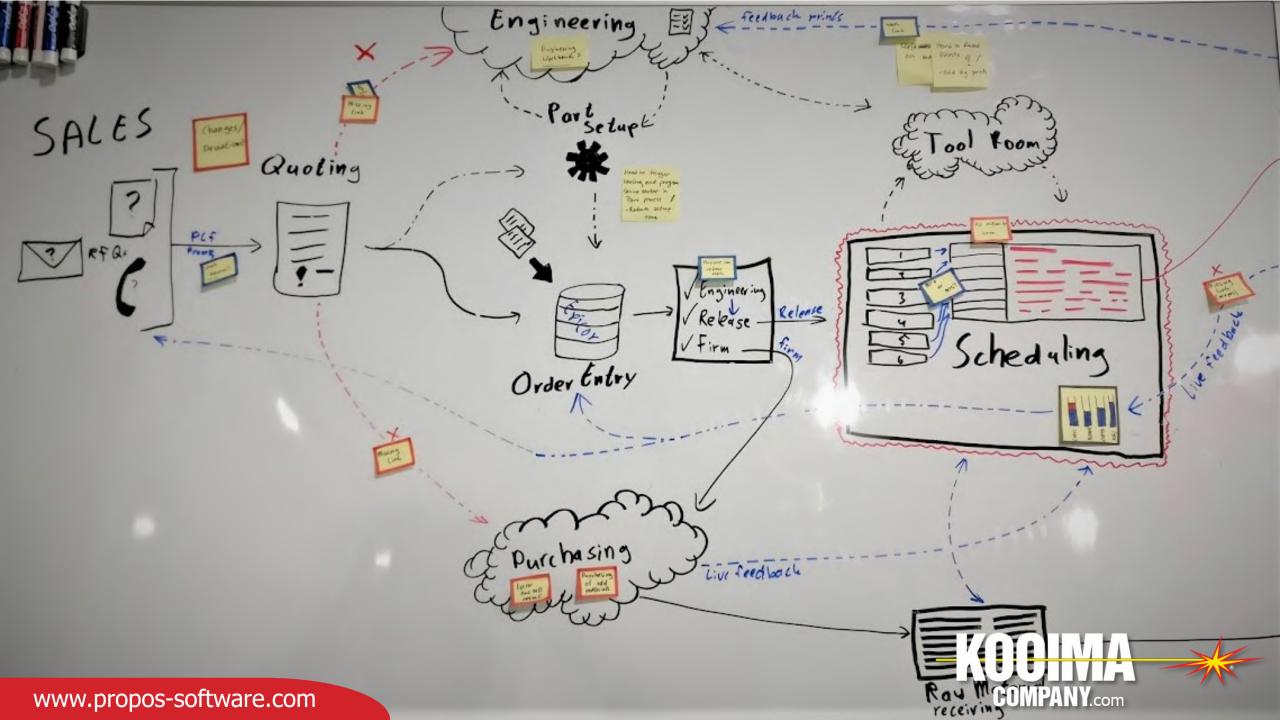
**QRM** 

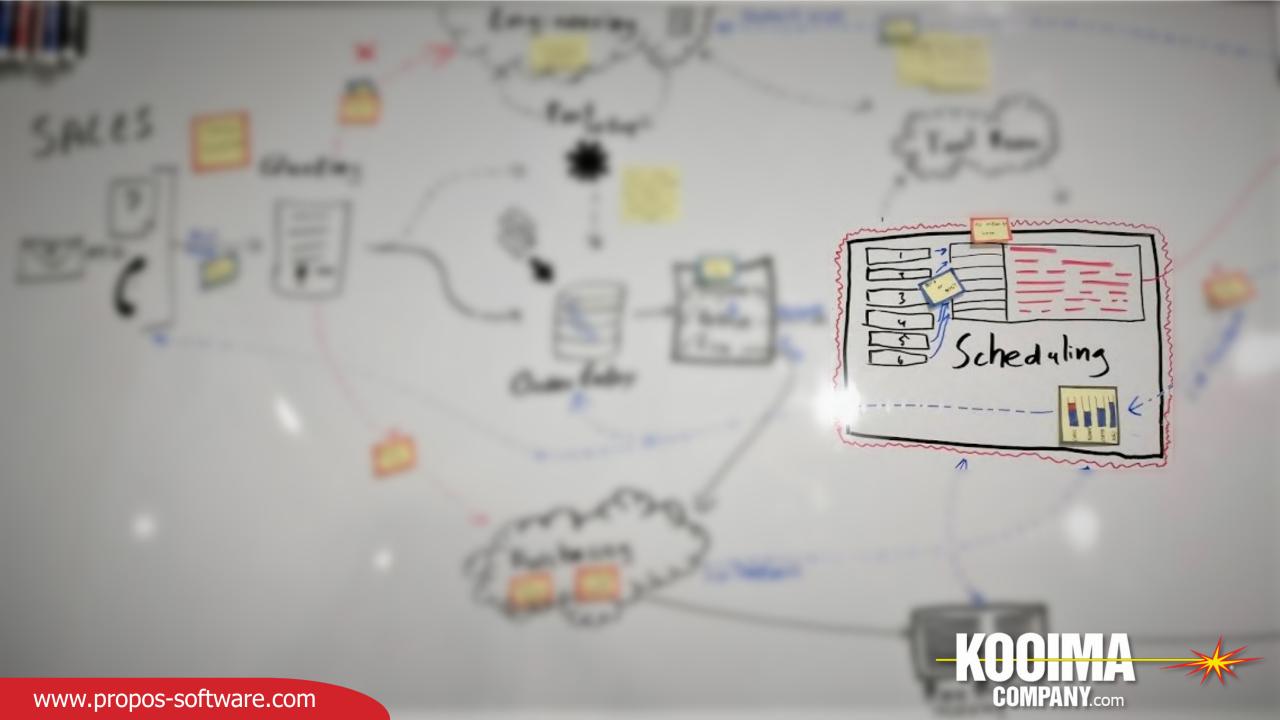


Lead time reduction

MCT POLCA FTMS Q-ROCs









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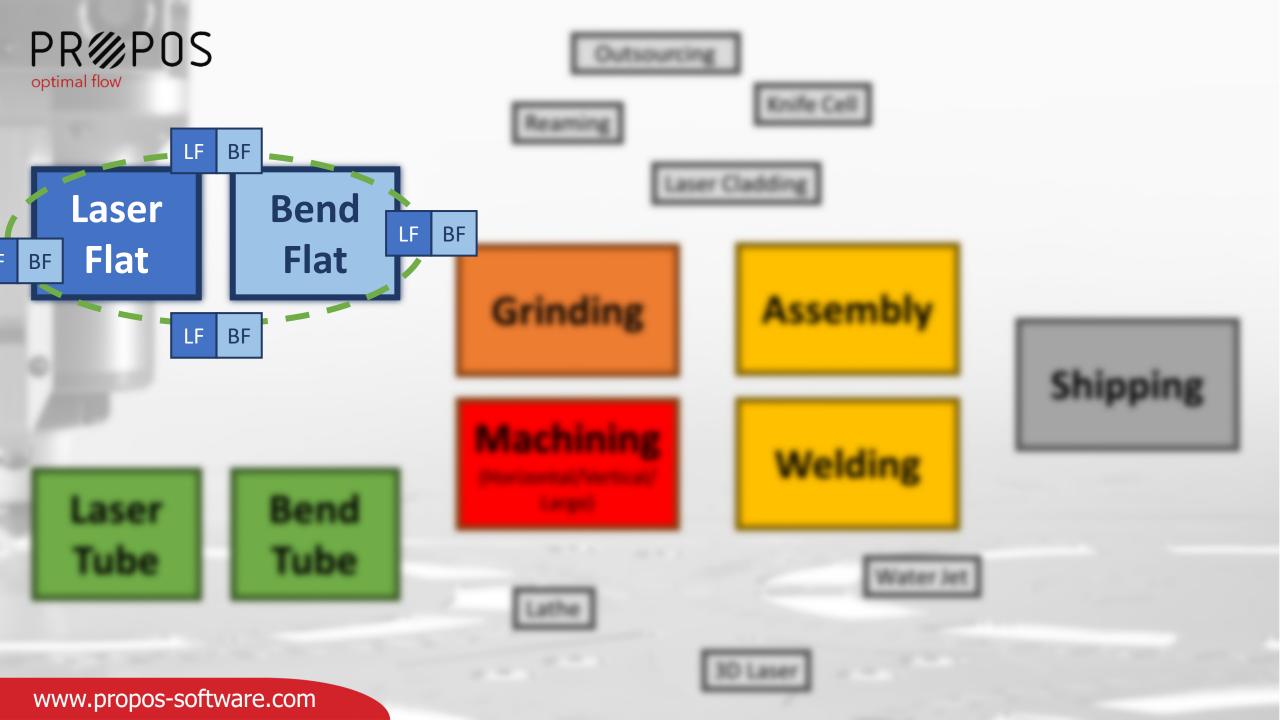
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www.propos-software.com











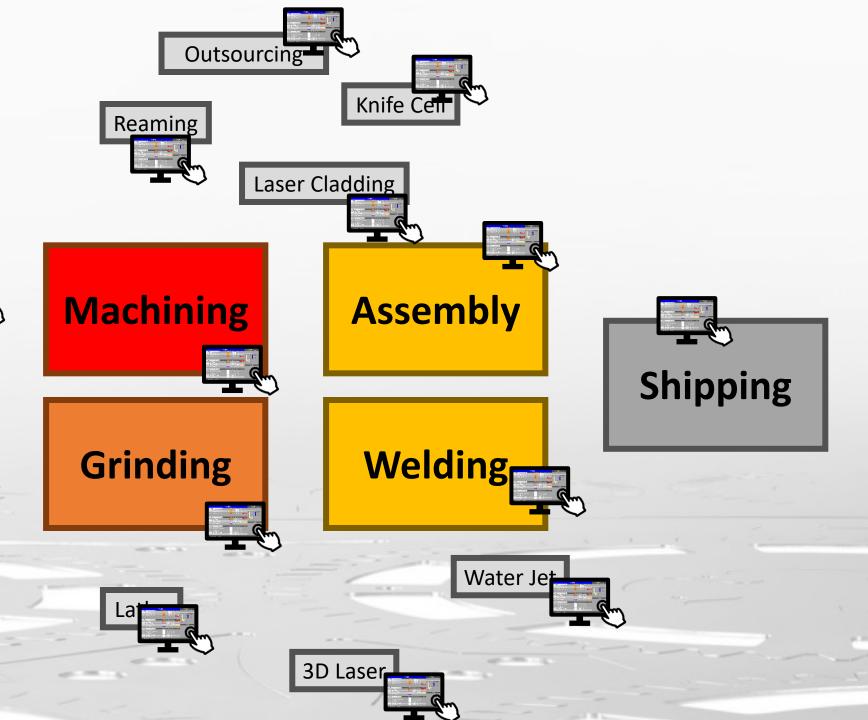


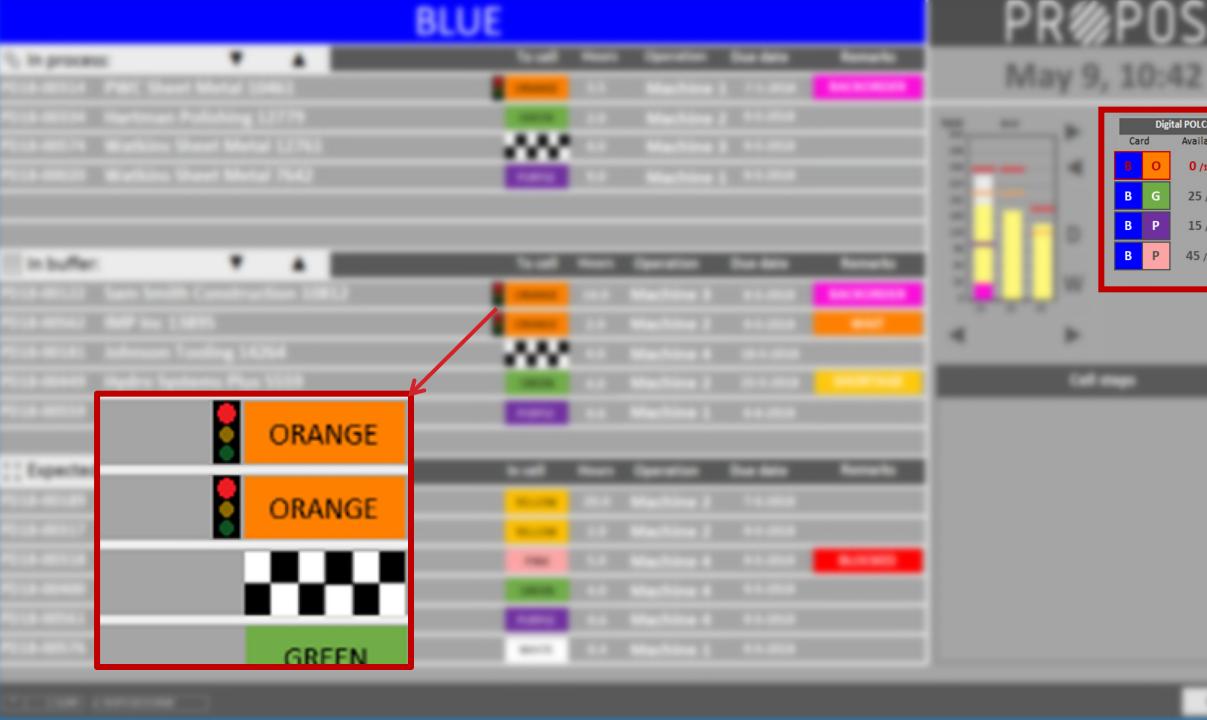






Bend Tube





#### Digital POLCA Available Card 0 /100 В 25 /75 B P 15 /62 ВР 45 /103









## Thank You!