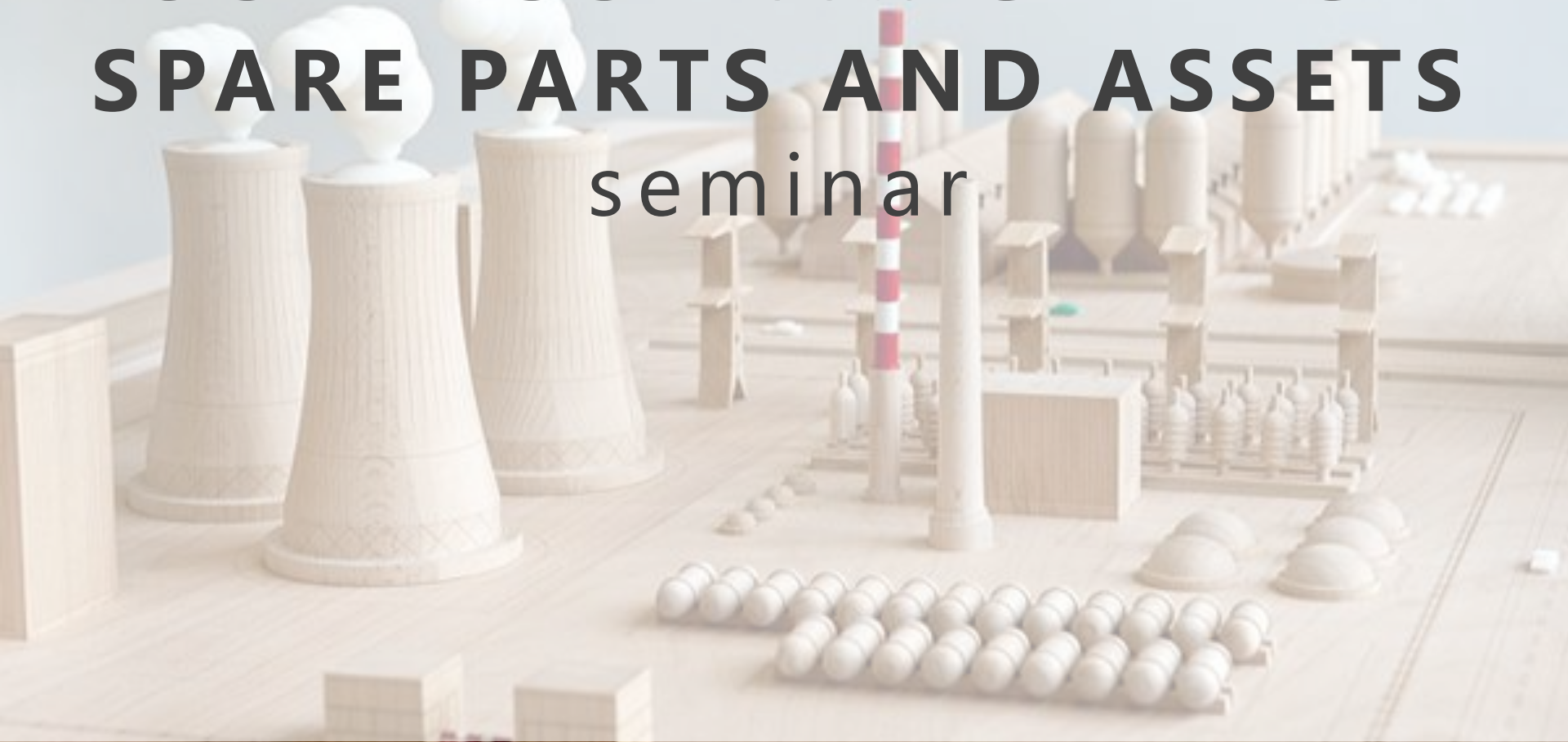


BUSINESS meets **CRITICAL** **SPARE PARTS AND ASSETS** seminar



BMC Programme



**08:30 – 08:45 Welcome by Jan Willem Rustenburg
Welcome by Johannes Coetzee**



08:45 – 09:15 Johan Alberts



09:15 – 10:00 Françoise Du Preez & Le Clus



10:00 – 10:20 Mid-morning break



**10:20 – 12:00 Interactive Supply Chain Criticality Game
by Jan Willem Rustenburg & Tycho Lejeune**



12:00 – 13:00 Lunch and evaluation

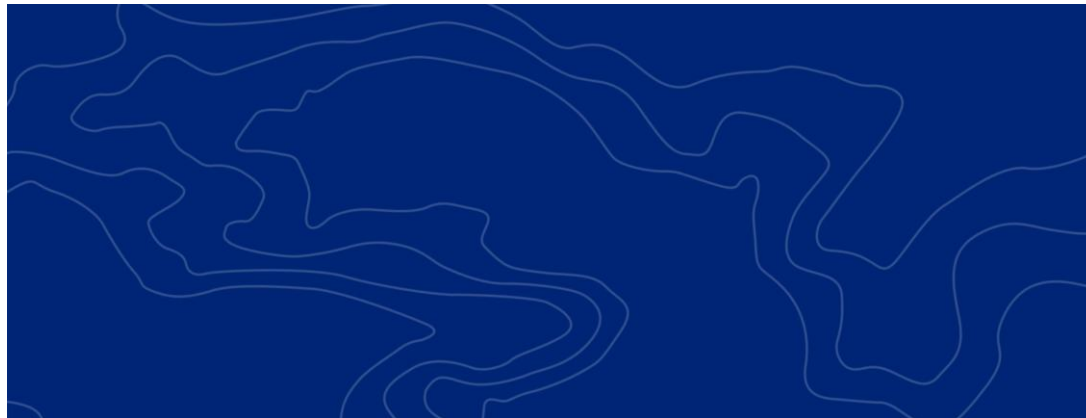




Spare Parts Management

New Vaal Colliery

09 November 2016



Real Mining. Real People. Real Difference.

Mid morning break

10:00 – 10:20 hour



A holistic supply chain view on **SPARE PARTS CRITICALITY**

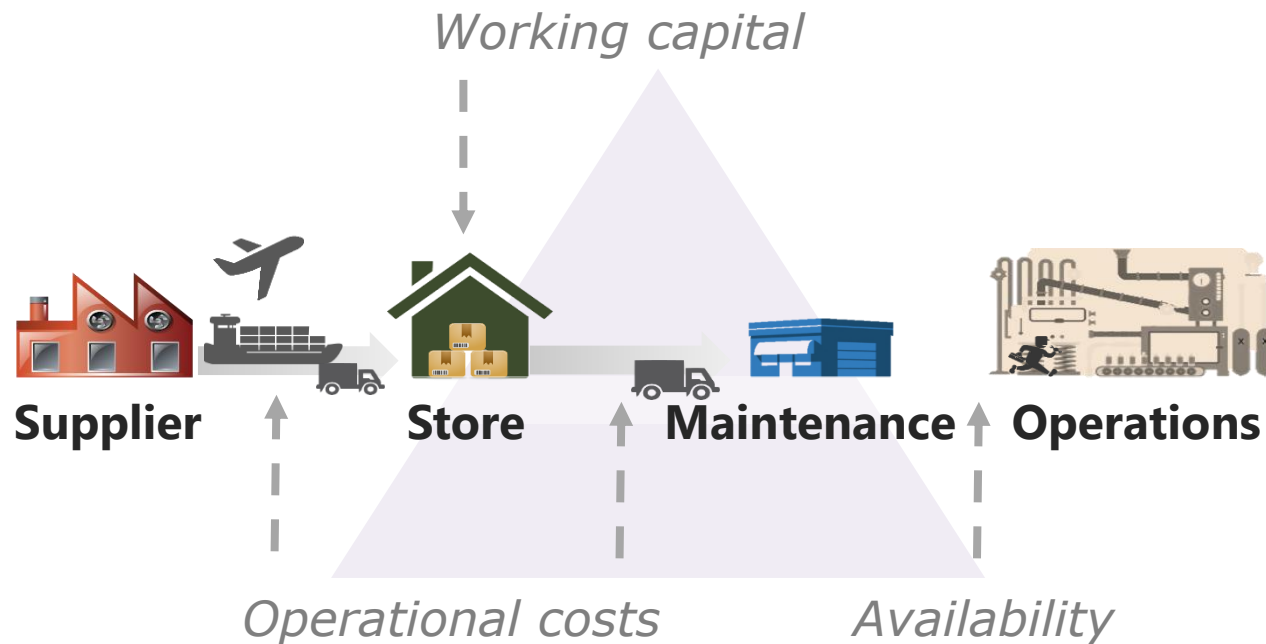
Balanced risk identification and effective mitigation



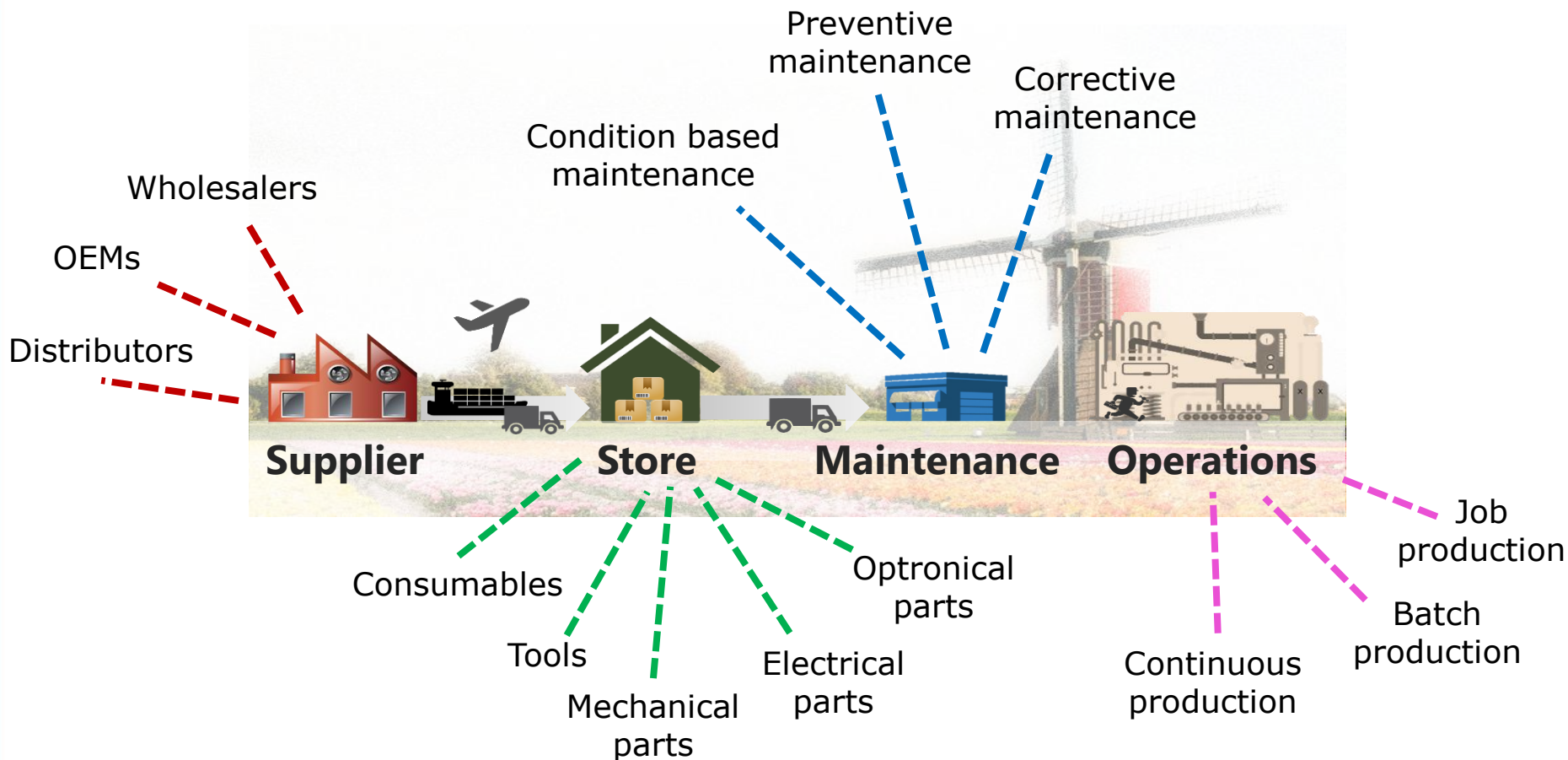
The key supply chain challenge for spare parts



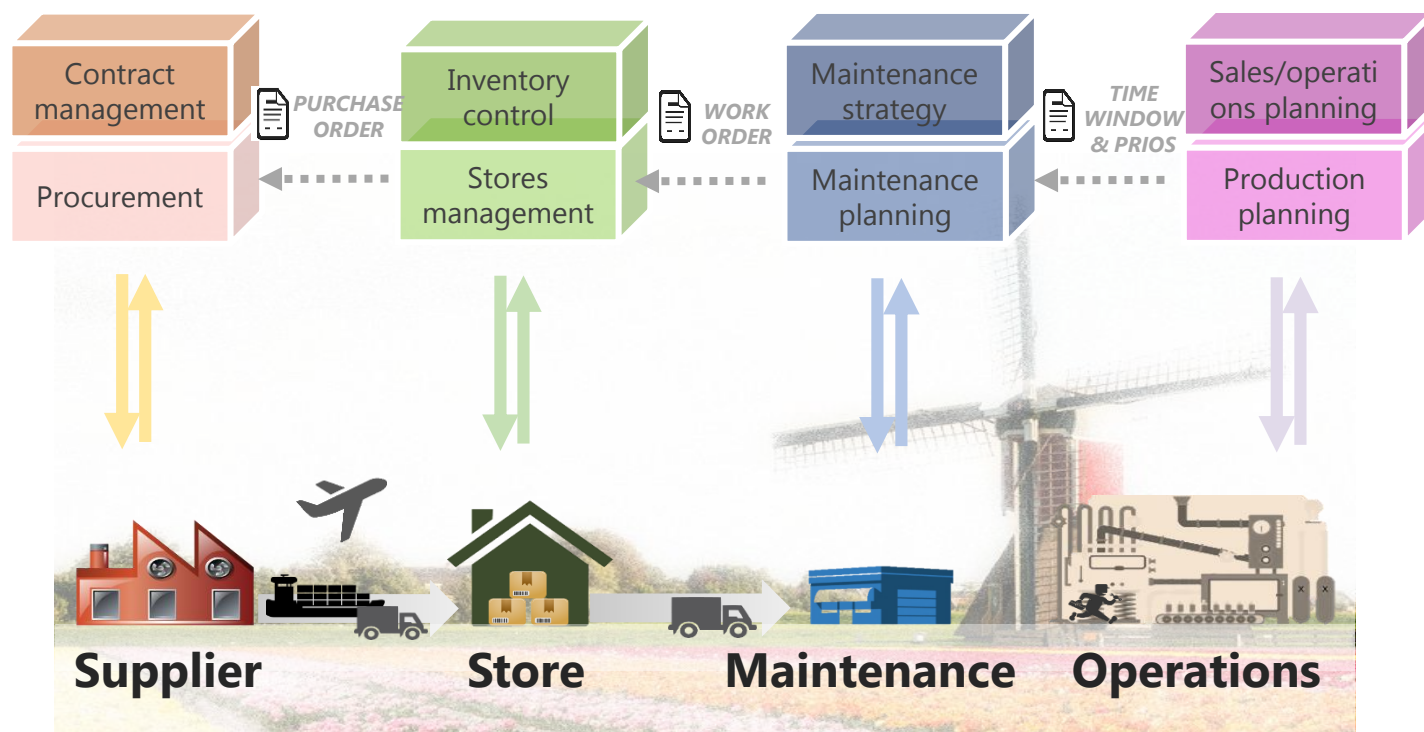
*Physical assets do not to be **down** due to a shortage of spare parts... against **reasonable costs**!*



Spare parts supply chain management is more than stores management -1



Spare parts supply chain management is more than stores management -2



Suppose that the basic practices are in place...

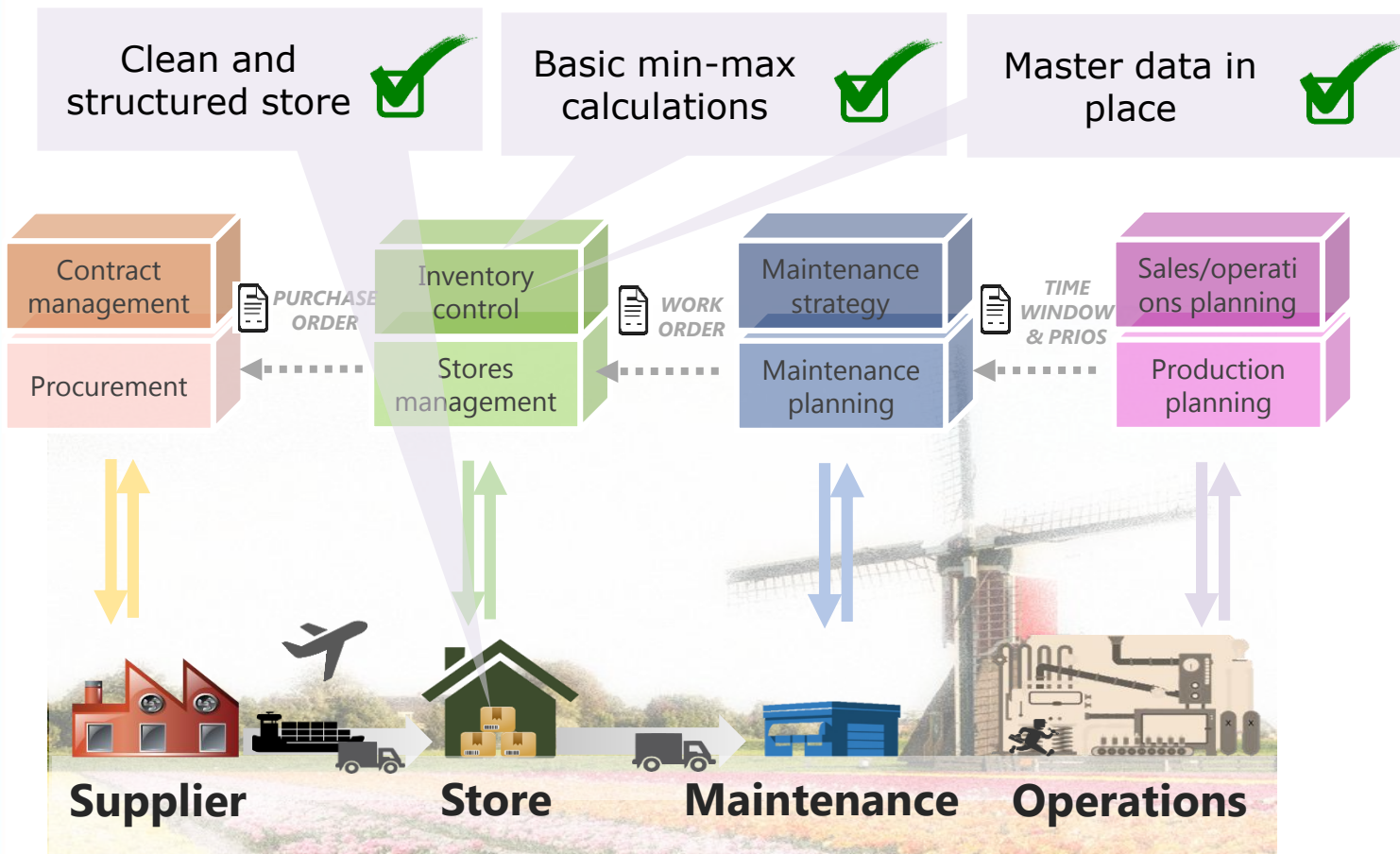


Clean and structured store ✓

Basic min-max calculations ✓

Master data in place ✓

*Which circumstances can then still cause **unplanned down time** due to **lack of spares**? And how to mitigate these risks?*



Risk 1:

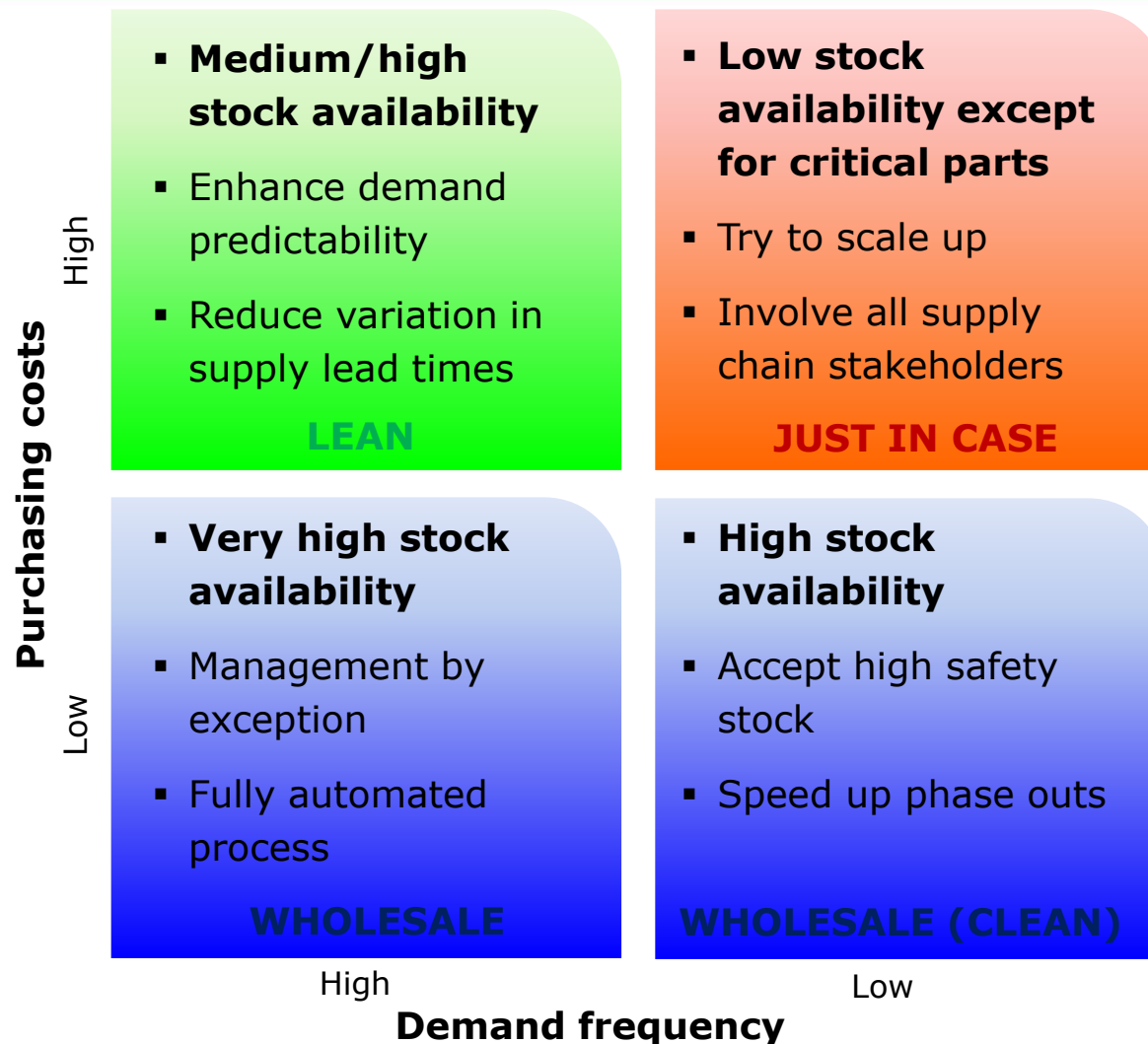
Unplanned downtime due to unknown parts criticality



Where must the stock controller start in his/her assortment?

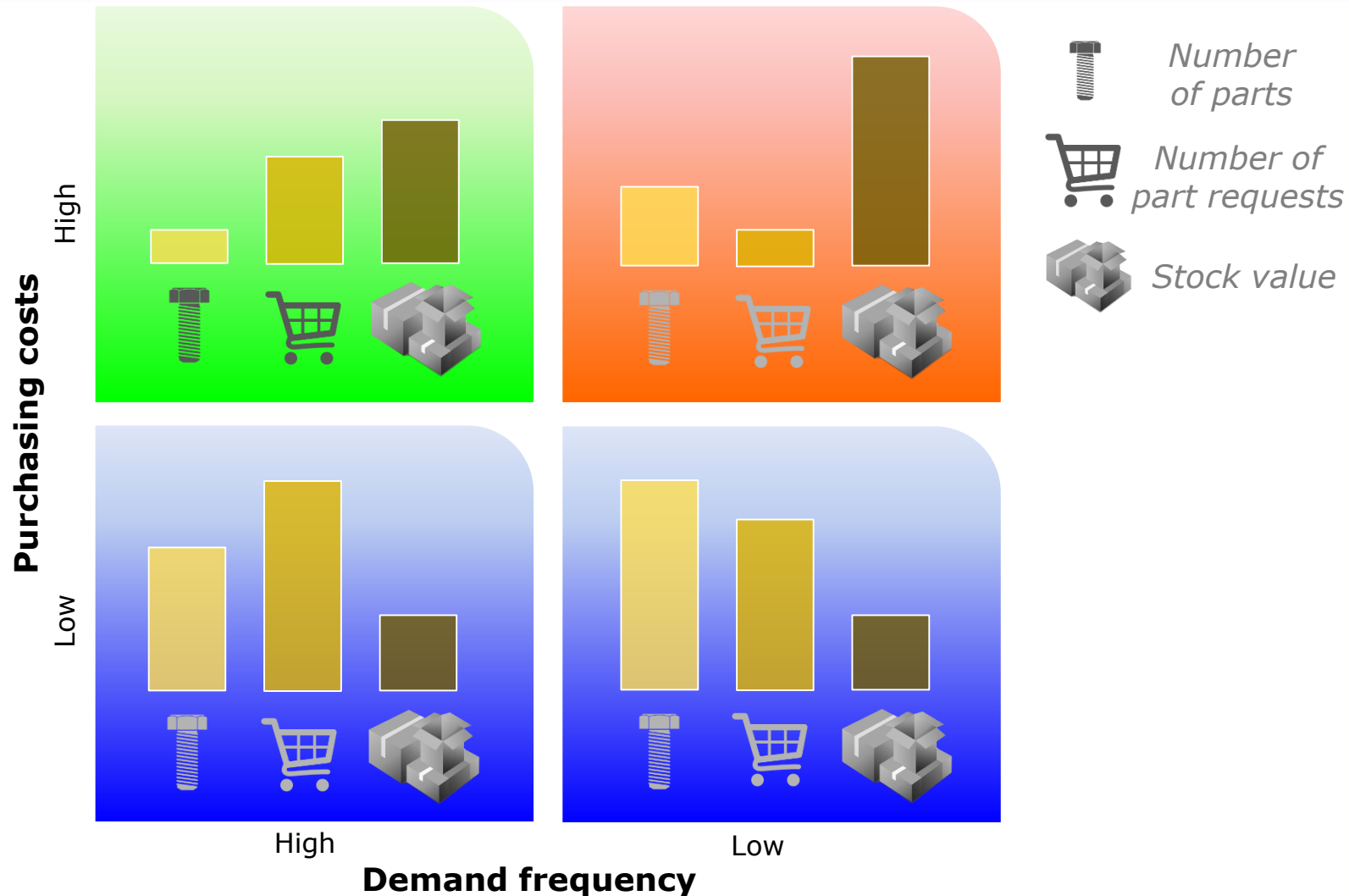
Remedy to risk 1:

Isolate the problem by smart classification



Remedy to risk 1:

Isolate the problem by smart classification



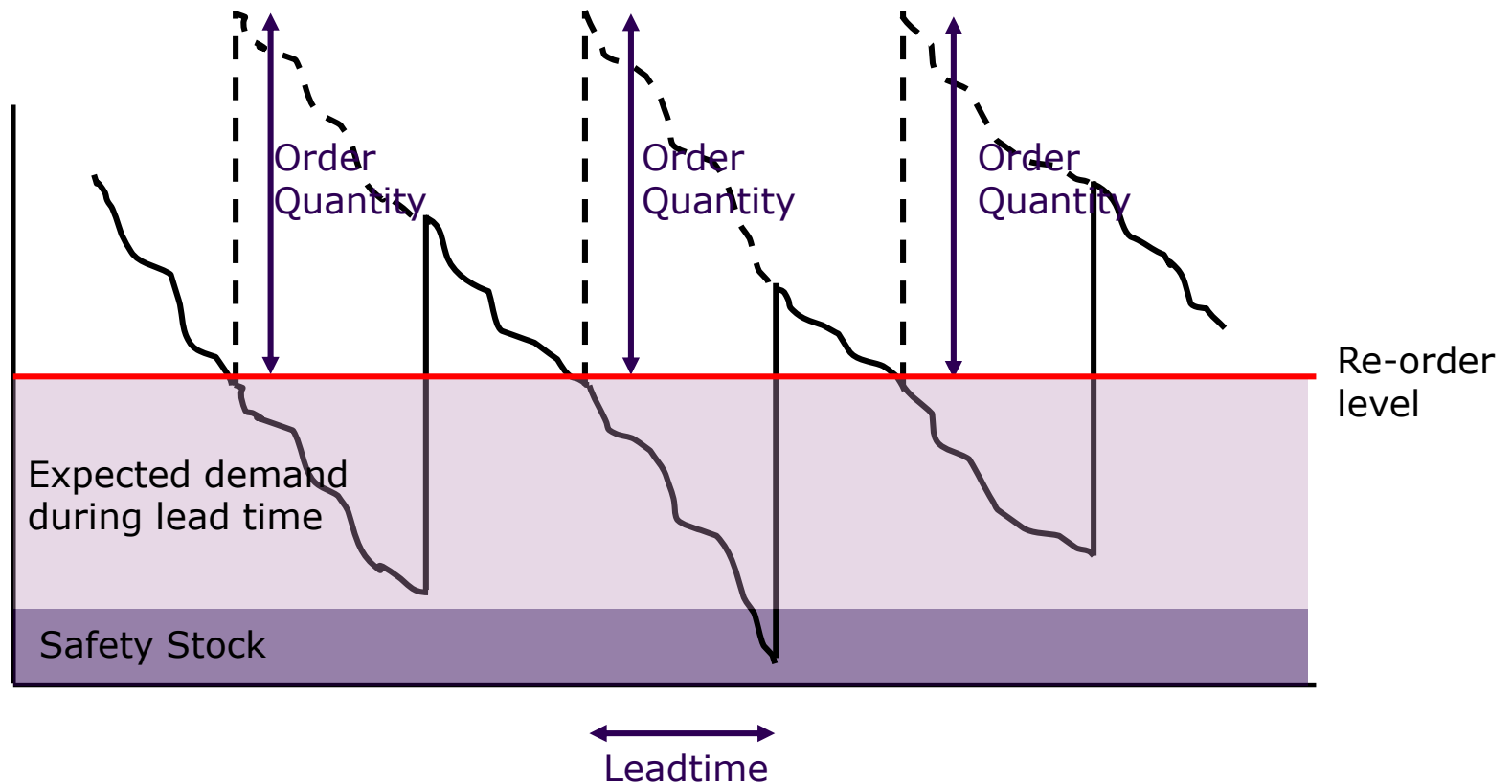
Risk 2:

Unavailability of spares due to long lead times



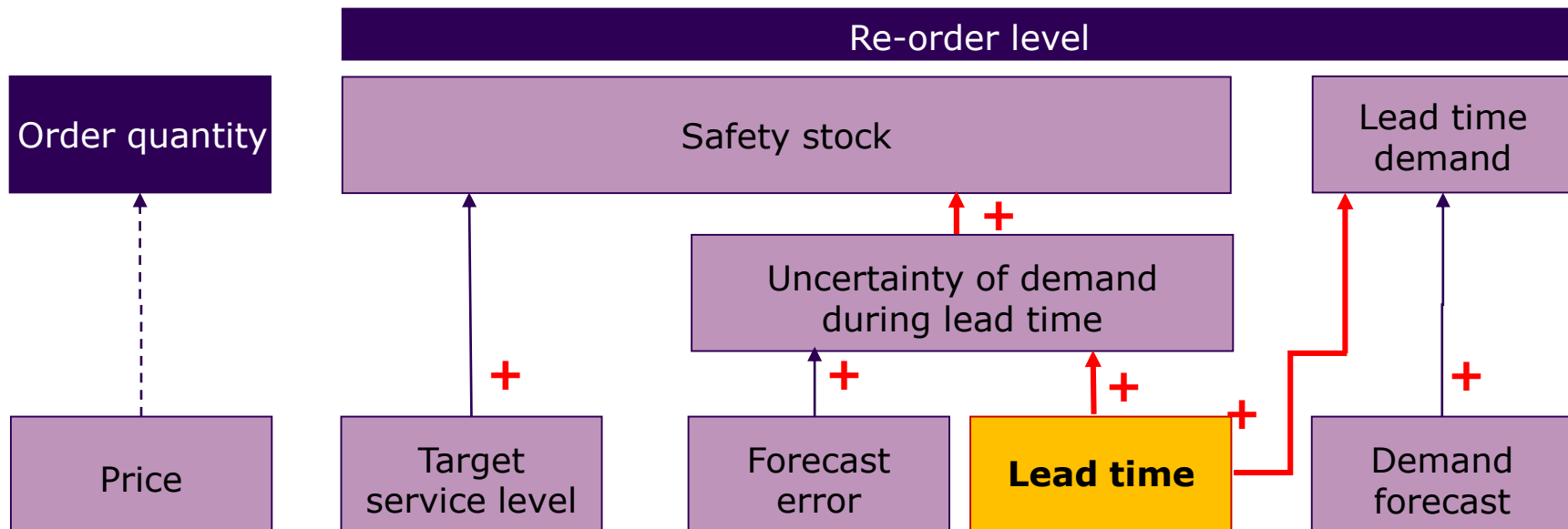
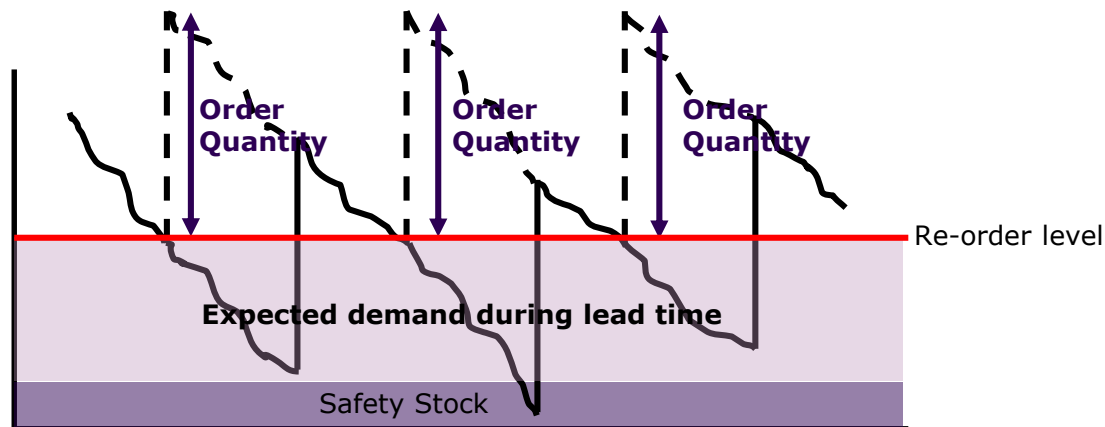
Remedy to risk 2:

Apply proper re-order level calculations



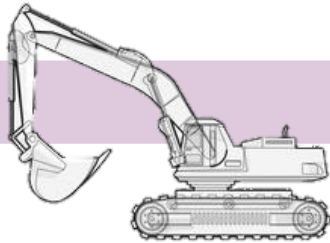
Remedy to risk 2:

Apply proper re-order level calculations



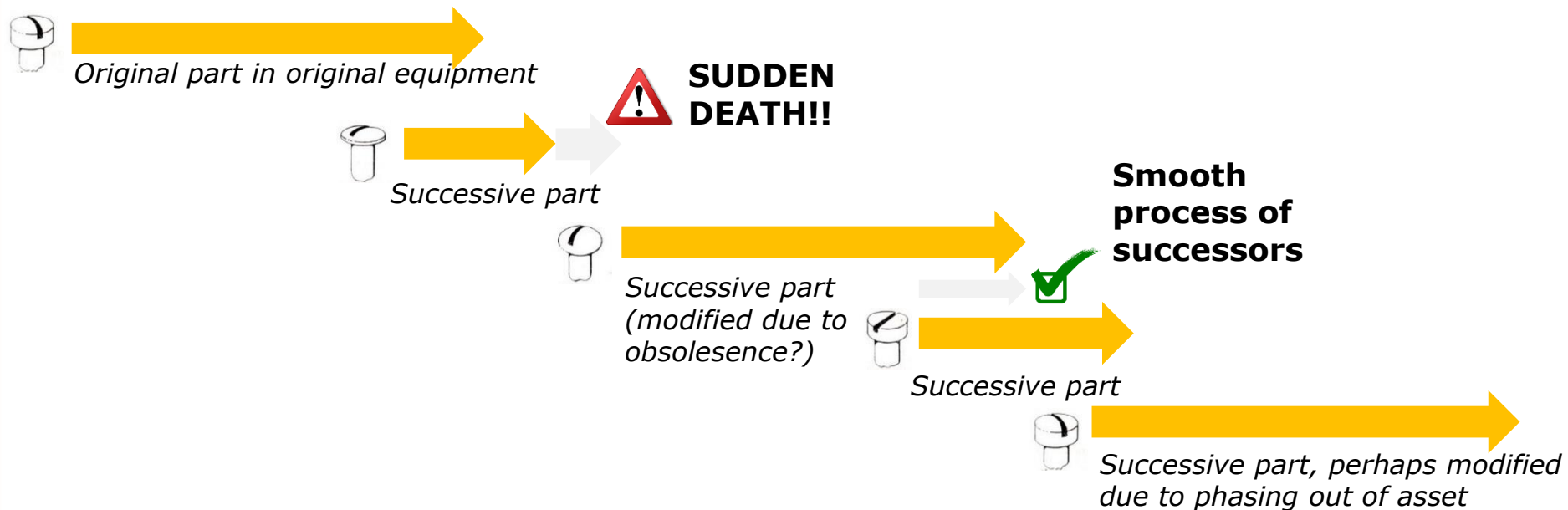
Risk 3:

Unavailability of spares due to obsolescence



From a typical asset life cycle of **15-20 years**...

To **variable** parts life cycles



Remedy to risk 3:

Consider ordering more frequently in order to better monitor supplier behavior



Science* tells us that the probability for obsolescence depends on the following factors:

- Average interval between two purchase actions
- Time between the last purchase and now
- Increase in lead time
- An observation of a recent long lead time

So interestingly:

As a client
you can

INFLUENCE
obsolescence
yourself !!



Develop a process to
manage obsolescence

** Research by prof. dr. Rommert Dekker, Erasmus University Rotterdam*

Remedy to risk 3:

Consider ordering more frequently in order to better monitor supplier behavior

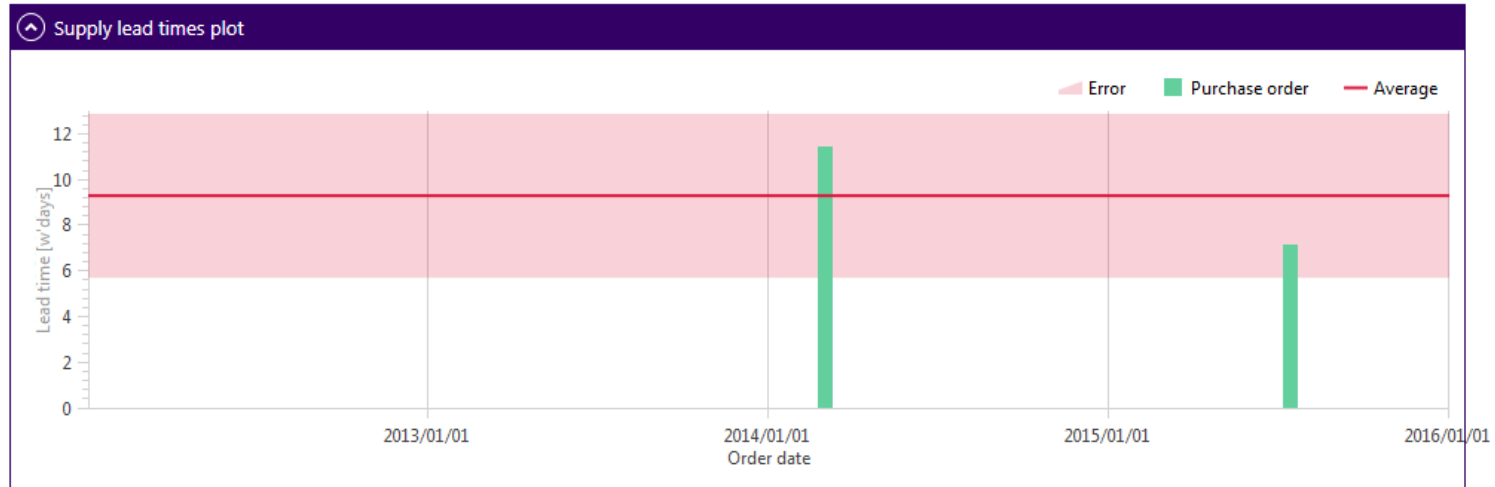


Unit value = R 1 910

Usage = 3.4 p/m

20 part requests p/y

Order more frequently, especially for parts which are not that cheap !!

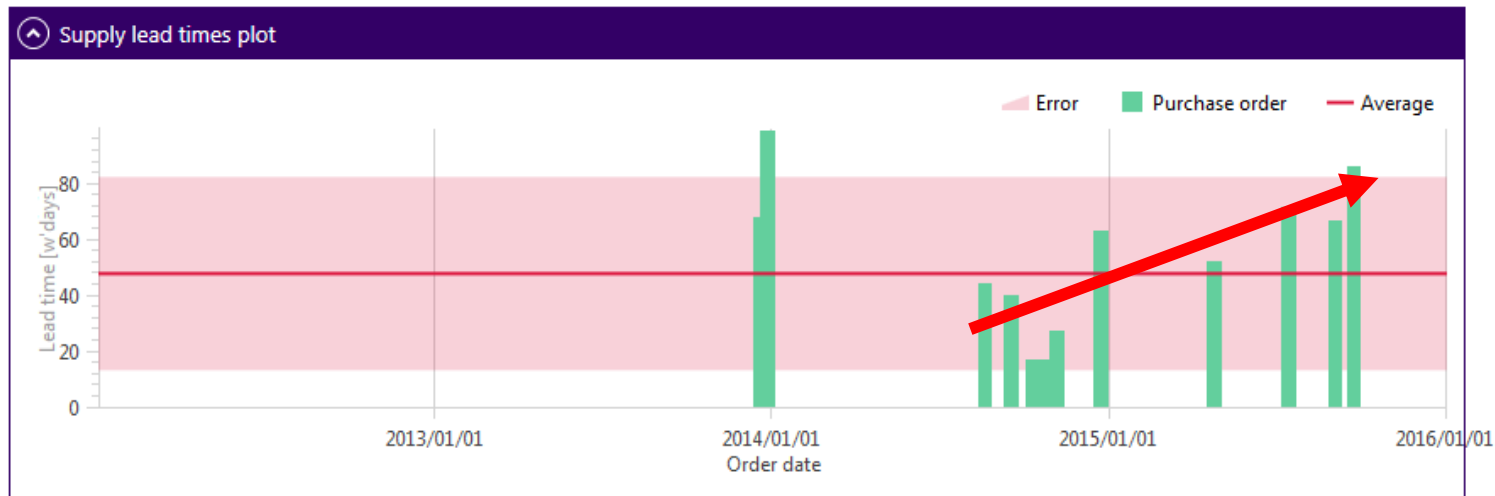


Unit value = R 5.50

Usage = 23 000 p/m

214 part requests p/y

Start talking to your supplier about possible obsolescence !!



Conclusions



Supply chain risk management ...

- ✓ Is very important but make sure that some **basic spare parts management** is in place
- ✓ Requires a **multi-disciplinary approach** to capture all relevant risks and ways to mitigate them
- ✓ Can be supported substantially by **proper spare parts management skills**



Contact details



Any questions, remarks or some desire for an informal chat?



Jan Willem Rustenburg
FOUNDING PARTNER

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Tycho Lejeune
CONSULTANT

t.lejeune@gordian.nl

Supply Chain Criticality Game

Identify risks in the supply chain and develop mitigating measures



10:50 – 11:00 Introductory round



11:00 – 11:10 Individual risk generation



11:10 – 11:20 Explain the risks within your group



11:20 – 11:30 Develop Mitigating Measures with the group



11:30 – 11:40 Prepare a 5 minute presentation per group



11:40 – 12:00 Present to the audience

Making teams

4 groups and 4 group Facilitators



Front side

Stijn

1. Riaan
2. Lionel
3. Zukisa
4. Stephen
5. Leon
6. Graham
7. Nigel
8. Francoise
9. Malusi

Tycho

1. Hannes B
2. Hannes F
3. Ciaran
4. Jano
5. Tirwirei
6. Herman
7. Hendrik
8. Billy
9. Andre

Julia

1. Pierre
2. Helen
3. Jeremiah
4. Pieter O.
5. Frikkie
6. Cyril
7. Andries van H
8. Andrew

Johan

1. Isaac C
2. Marius
3. Bob
4. Wendy
5. Daniel
6. Willem
7. Ben
8. Andries K



Evaluation Criteria:

- ✓ Completeness (50%)
- ✓ Relevance (30%)
- ✓ Creativity (20%)



Lunch and evaluation of the game

Until 13:00 hour

