

**OMRON**

Excellence with Industrial Internet of Things

Omron Industrial Automation  
Dimphy Geldhof & Bram Kale

**Machine  
bouw**

**6 december 2018**  
1931 Congrescentrum  
Den Bosch



# i-Automation!

Creating the future of manufacturing



*i*ntegrated Seamlessly integrating different technologies & disciplines



*i*ntelligent

Turning factory floor data in to high value information



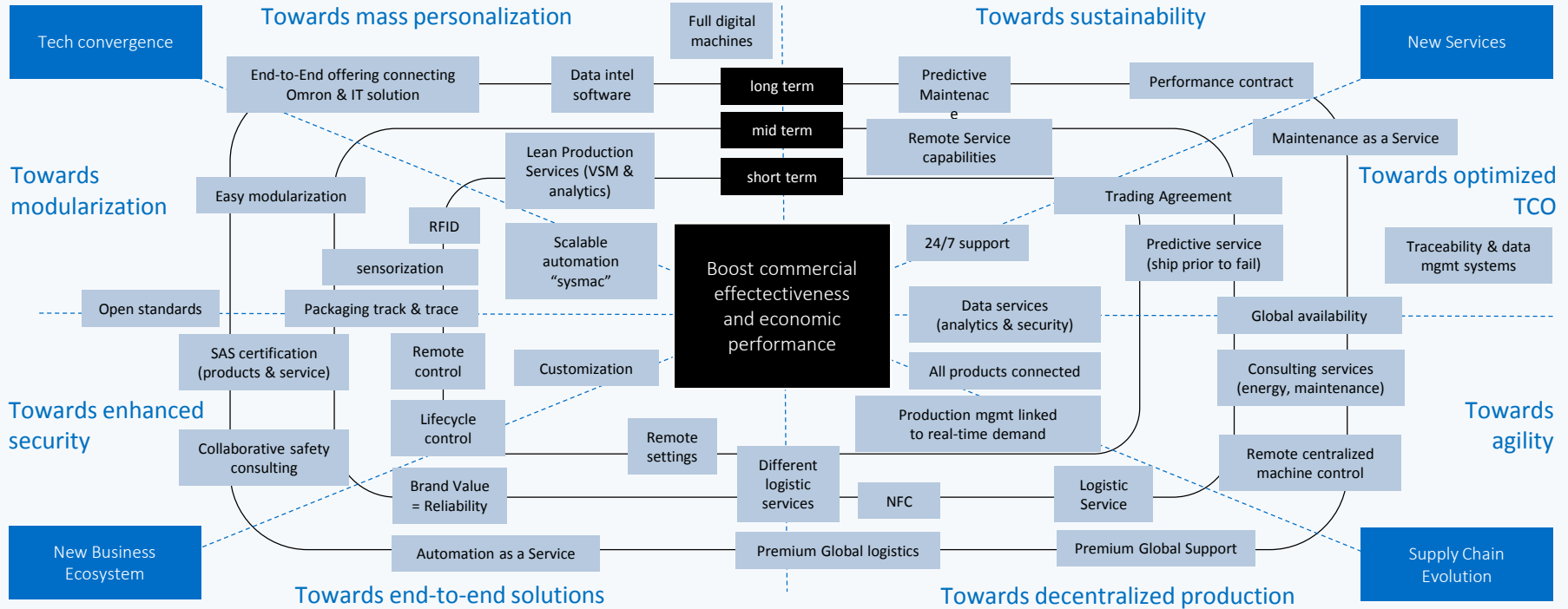
*i*nteractive

Creating safe & easy interaction between humans & machines

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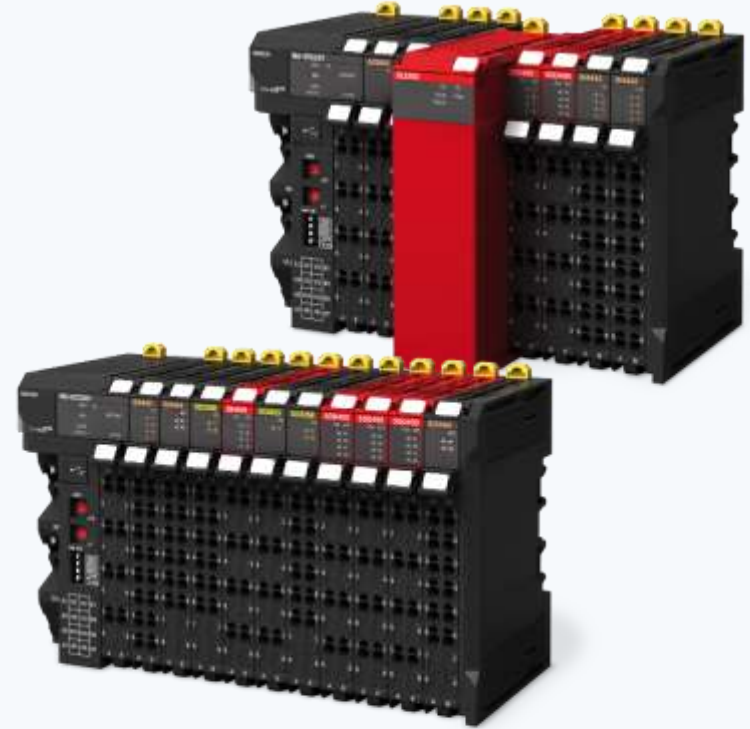
# Hoe eet je een olifant

- Begin klein
- Strategische keuzes
- Quick wins
- Betrek je medewerkers en stakeholders vanaf het begin.
- Verplicht innovatie





# NX IO assembly lijn

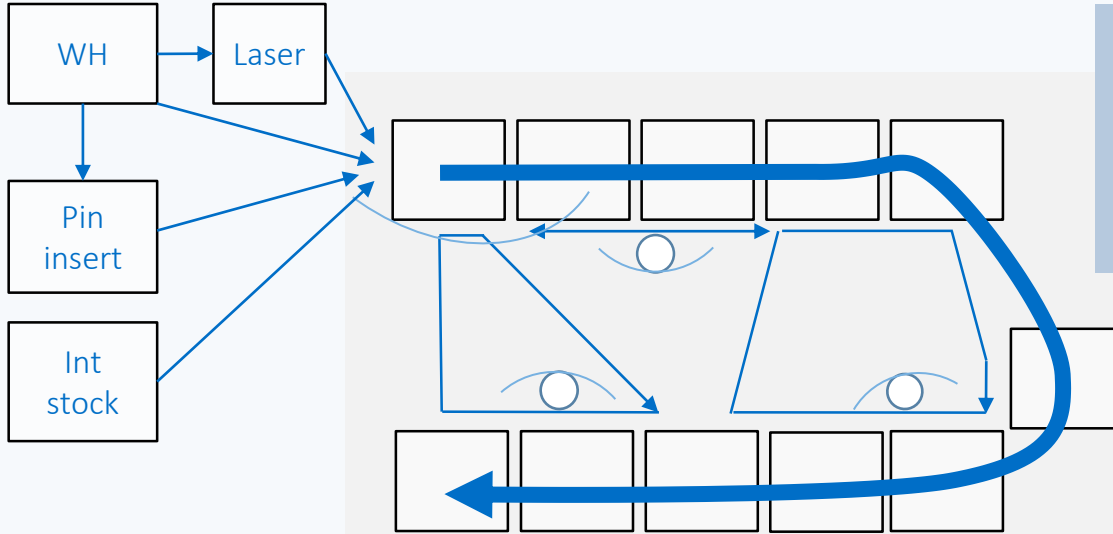


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# NX IO lijn CHN



IO-Link enabled sensor

# Medewerkers:	3
Cyclus tijd:	4.29 min
<b>Arbeidstijd:</b>	<b>10.12 min (excl ext. process)</b>
Balans verlies:	27%

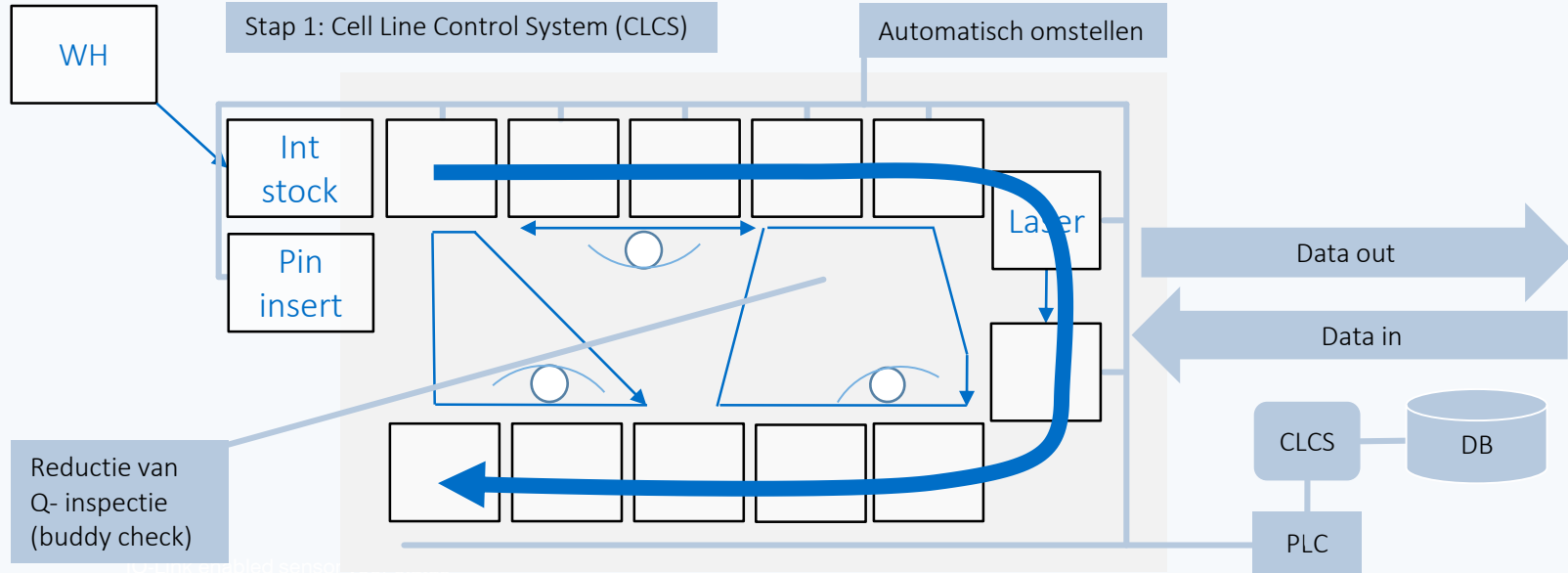
Arbeidskosten CHN  
Arbeidskosten NL



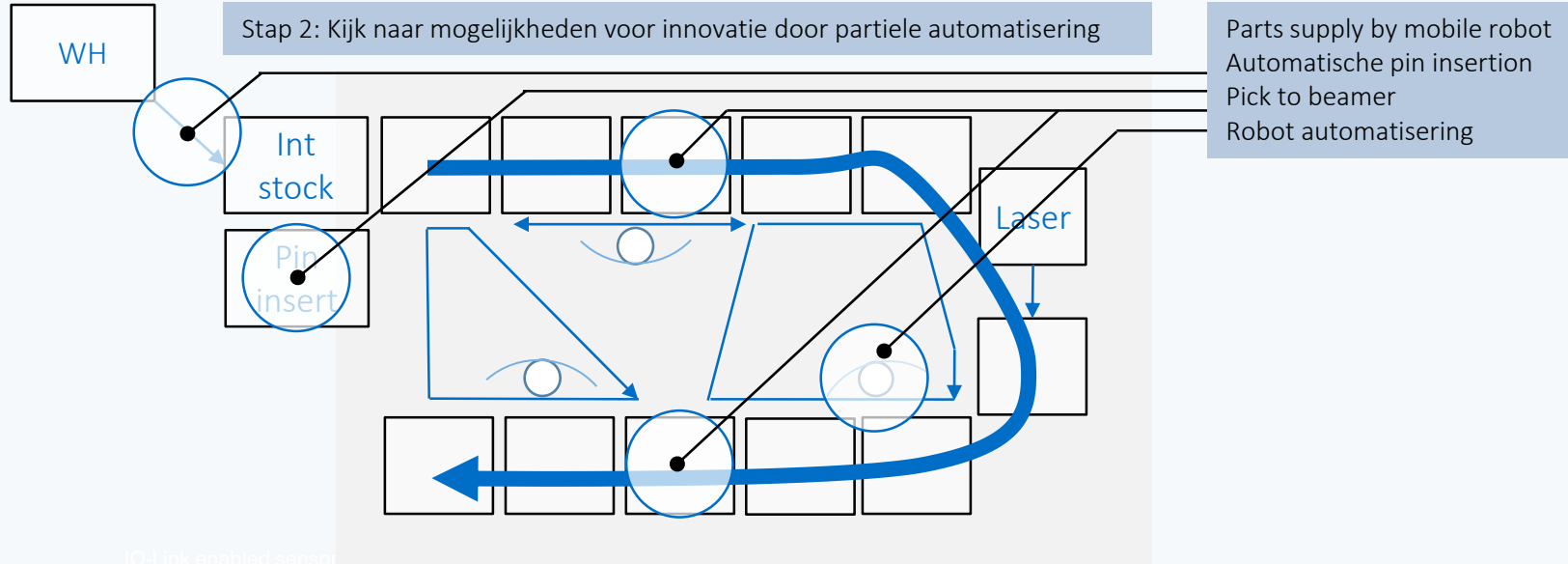
**Note:**  
Vanwege vertrouwelijkheid  
zijn cijfers fictief



# Verkleinen arbeidstijd, Hoe?

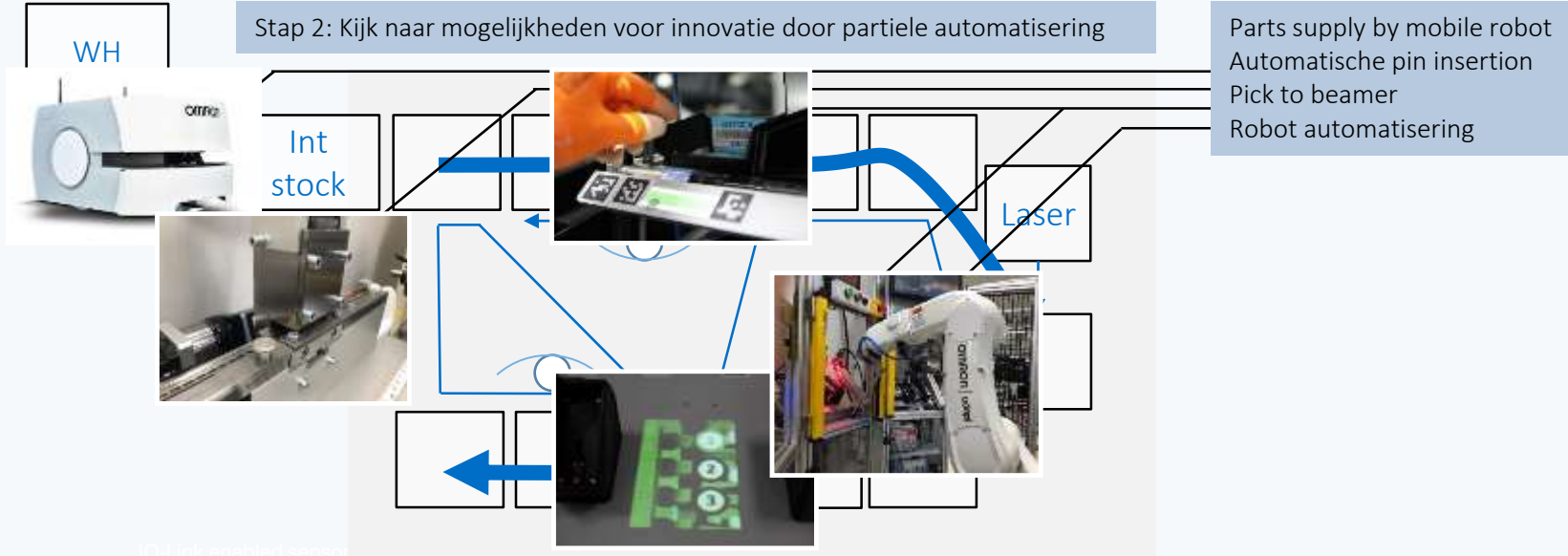


# Verkleinen arbeidstijd, Hoe?

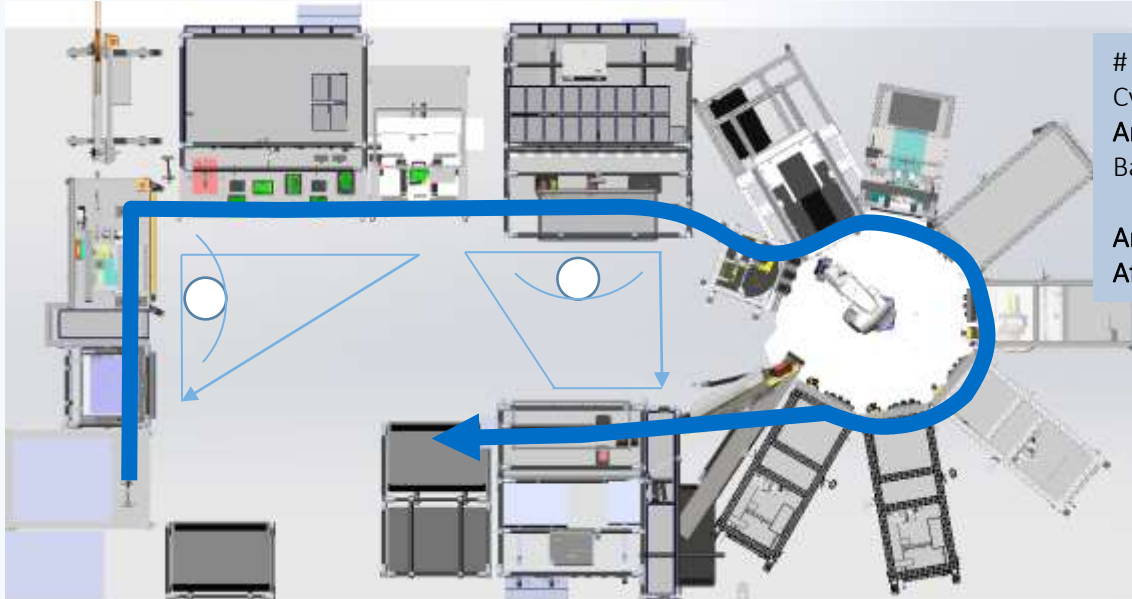




# Verkleinen arbeidstijd, Hoe?



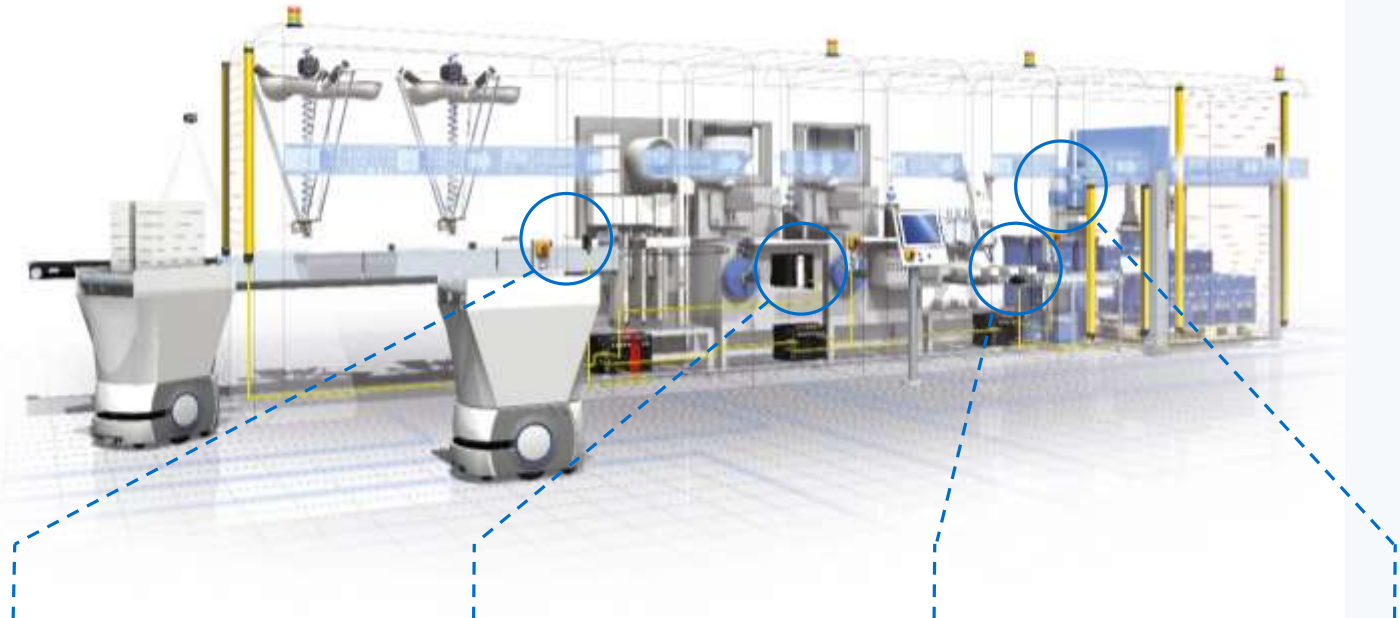
# Resultaat



# Medewerkers:	2
Cyclus tijd:	4.29 >> 1.88 min
<b>Arbeidstijd:</b>	<b>10.12 &gt;&gt; 3.25 min (incl. all)</b>
Balans verlies:	16%
Arbeidskosten NL	€ 4.20 >> € 1.35
Afschrijving	€0.51



# En dan in de machine ...



IO-Link enabled sensor voor status

Status

Slimme voeding

Aantal uren stilstand van motor

Aantal robot picks

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Vragen?

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