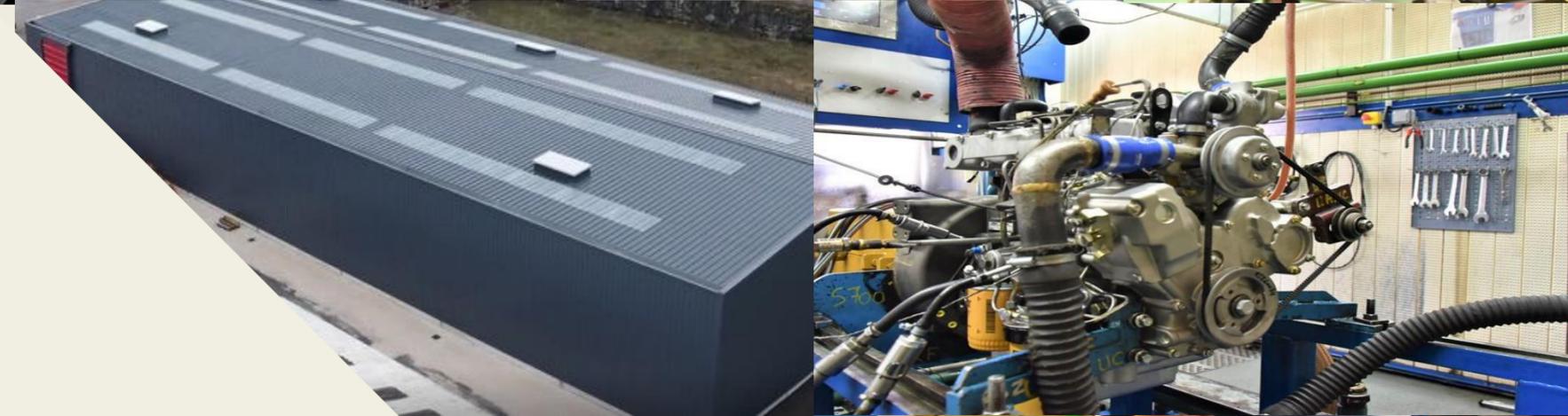




# F2J REMAN CHAUMONT & RADOM

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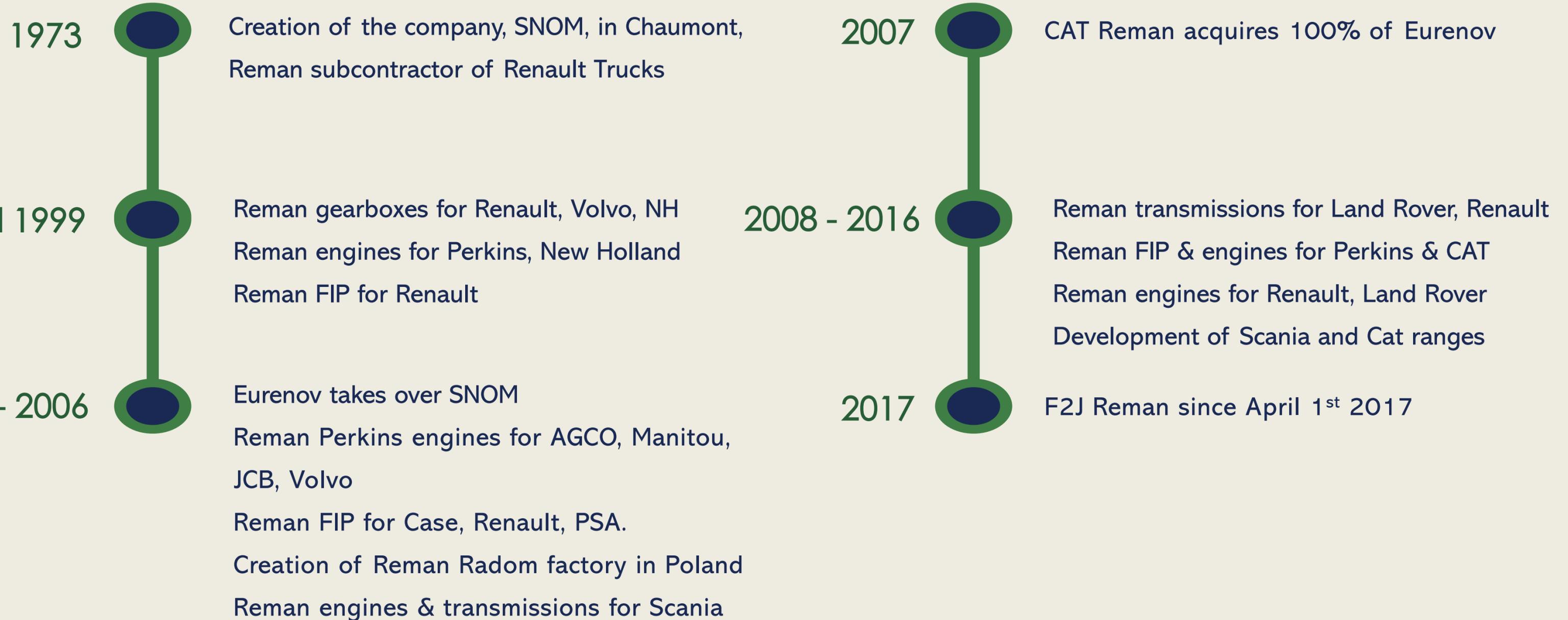




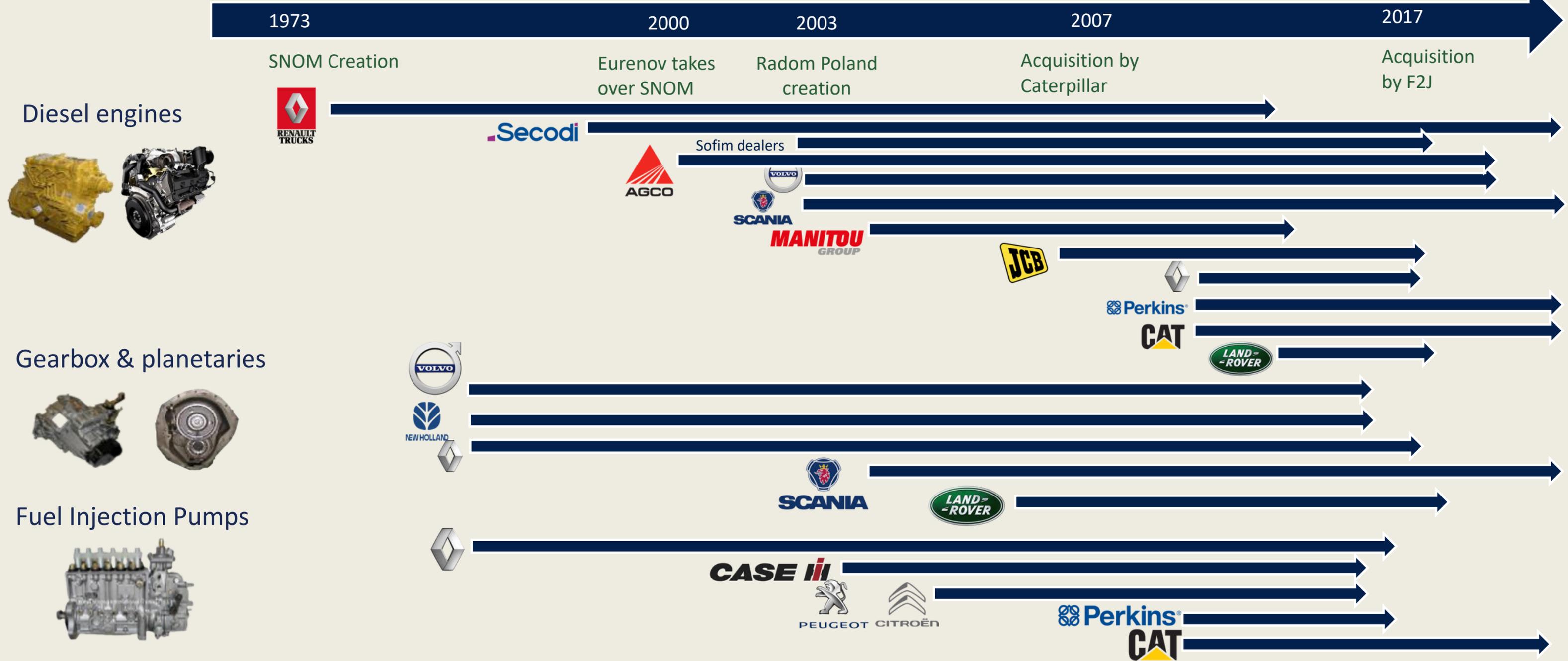
# Overview presentation

PART 1	ABOUT F2J REMAN & HISTORY WITH CUSTOMERS
PART 2	TWO PLANTS : CHAUMONT & RADOM
PART 3	KEY FIGURES
PART 4	REMANUFACTURING
PART 5	REMAN PRODUCTS & APPLICATIONS
PART 6	RANGE OF PRODUCTS & APPLICATIONS
PART 7	F2J REMAN PLANT'S MODERNIZATION
PART 8	ABOUT F2J INDUSTRY

# ABOUT F2J REMAN...



# HISTORY F2J REMAN CUSTOMERS & PRODUCTS



# TWO PLANTS...



## CHAUMONT FRANCE

Established in 1973

270km E of Paris

35K sqm land & 10K sqm building



66 Employees



&



Remanufacturing engines up to 16L

Automotive/Trucks and Industrial engines

High flexibility, strong service skills & complexity management



## RADOM POLAND

Established in 2003

100km S of Warsaw

3,2K sqm covered



34 Employees



&

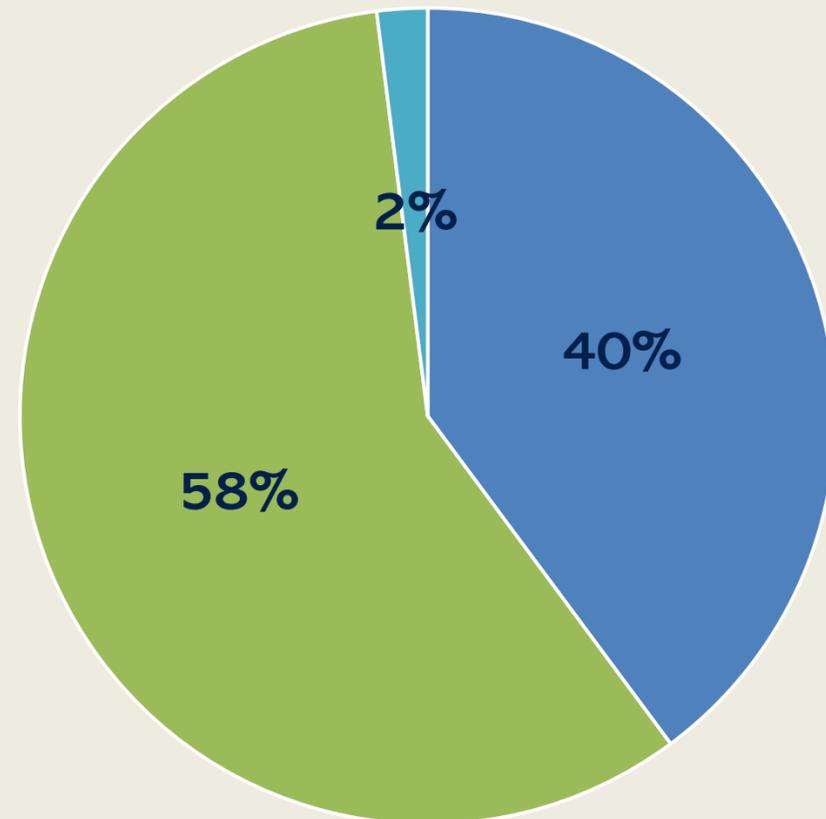


Remanufacturing of engines up to 7L

Remanufacturing of short engines up to 13L

Remanufacturing of transmissions

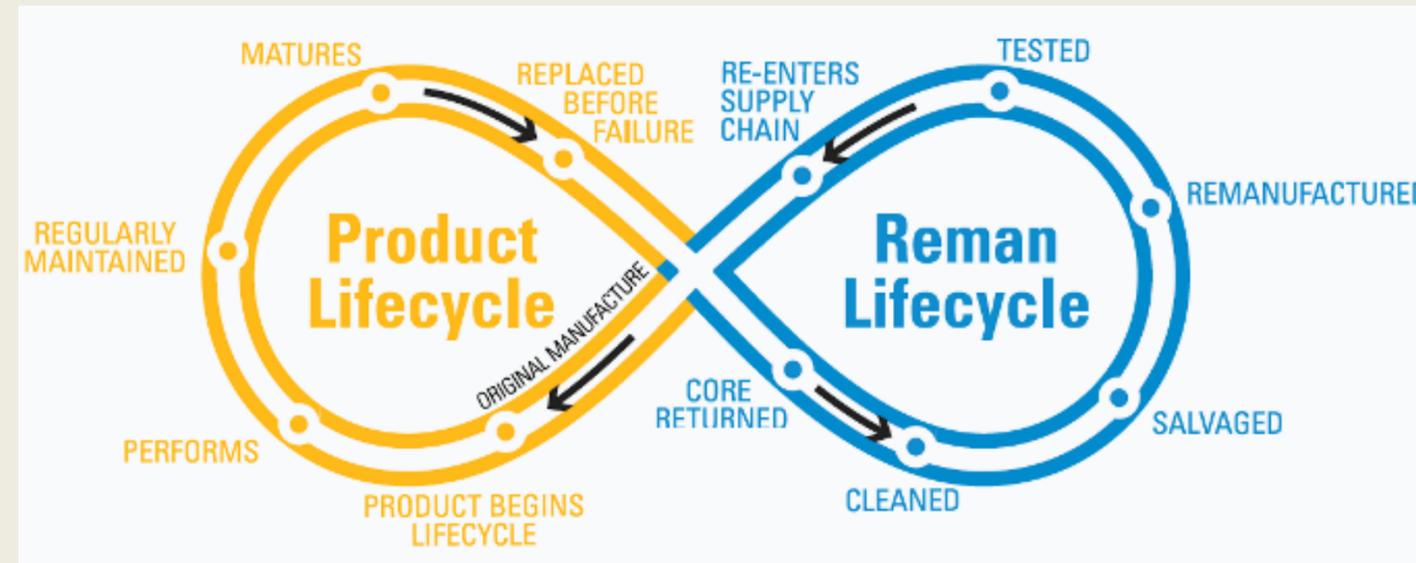
# KEY FIGURES OF F2J REMAN



- Scania (Scania engines & transmissions)
- Cat - Perkins - Secodi (Perkins engines)
- Others (Coldpad)



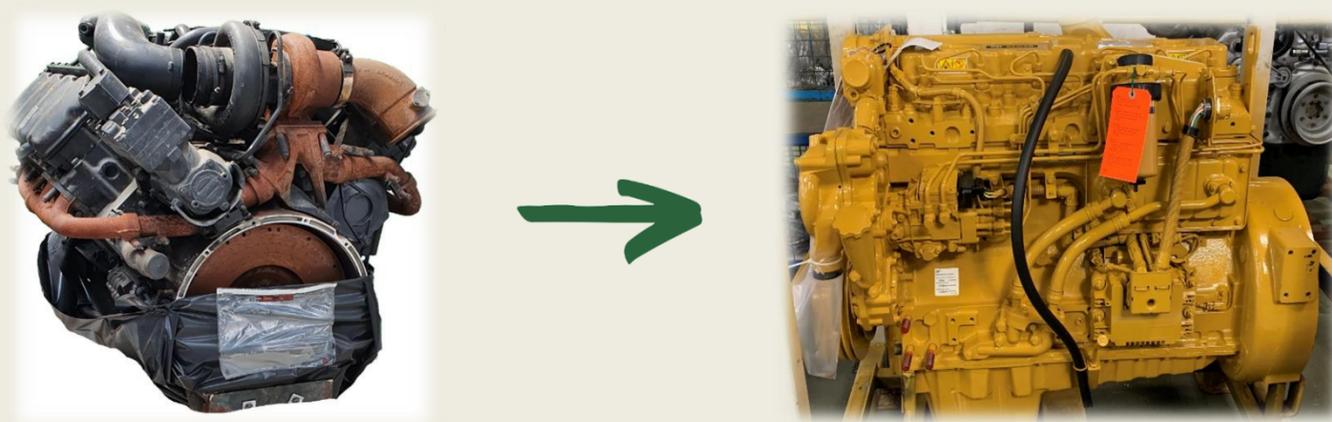
# WHAT'S REMANUFACTURING ?



## BENEFITS ?

-  LOWER COST
-  WARRANTY
-  LOWER IMPACT ON THE ENVIRONMENT

**Remanufacturing :**  
Rebuilding of a product from a core in such a way that it is functionally identical to new part



# REMANUFACTURING PROCESS



**CORE  
RECEPTION**



**CORE  
DISASSEMBLY**



**PARTS  
CLEANING**



**PARTS  
MACHINING**



**PARTS SORTING**



**PARTS KITTING**



**ASSEMBLY & CONTROL**



**TESTING**



**PAINTING & PACKAGING**

# REMAN PRODUCTS



## ENGINES



Complete new



Complete reman



Long engine reman & new

## ENGINE COMPONENTS



Water pumps



Cylinder head



Crankshaft

## TRANSMISSIONS



Gearbox Truck



Differential



Gearbox Car

## INJECTION



In-line FIP Bosch/Zexel



Delphi DPA, DPC, DP 200



Bosch VP, VE

# REMAN APPLICATIONS



Construction equipment



Agriculture equipment



Material handling



Trucks & Bus



Commercial vehicles



Passengers vehicles



# RANGE OF PRODUCTS & APPLICATIONS

PRODUCTION AT 

## PERKINS ENGINES

For CAT Grimbergen, Perkins Irlam, OE Customers

Tier 0, 1, 2 & 3

3 to 6 cylinders

SubAssy, Short, Long, Complete engines

Reman & New assembly

Small Medium size, up to 6.6L, 925Nm 150kW

Test bench in Chaumont



## SCANIA ENGINES

For Scania Oudsbergen

9 to 16 L

5 & 6 cylinders in line

8 cylinders in V

SubAssy, Short & Complete engines

Reman & New Assy

Medium – Large, up to 430kW





# RANGE OF PRODUCTS & APPLICATIONS

PRODUCTION AT 

## PERKINS ENGINES

For CAT Grimbergen

3 to 4 cylinders  
Long block & Complete engines Reman

Reman & New assembly

Small size, up to 4L, 190Nm 38kW  
Test bench in Radom



## SCANIA TRANSMISSIONS

For Scania Oudsbergen

Gearboxes  
Planetary  
SubAssy

Reman & New Assy



## SCANIA ENGINES

Short engine, 6 cylinders in line, 13 L

Reman & New Assy

# YEARLY QUANTITY



## SCANIA

## CAT / PERKINS

SHORT ENGINE	150
EXCHANGE ENGINE	200
NEWMAN ENGINE	50
NEW ENGINE	100

SHORT ENGINE	50
LONG ENGINE	450
EXCHANGE ENGINE	1350



# F2J REMAN PLANT'S MODERNIZATION



## ➔ FRONT BUILDING MODERNIZATION

Absestos removed / front building	12/2017	✓
Front building finished	12/2017	✓
Absestos removal for the other areas of the plant	04/2018 – 12/2018	✓
New locker rooms	02/2021	✓
New living area	> 05/2021	



## ➔ MACHINING EQUIPMENT MODERNIZATION

CNC 3 axis	12/2017	✓
Washing machine	01/2018	✓
Honing machine SV410	10/2019	✓
Metal spray	11/2019	✓
CNC for Crankshaft	12/2020	✓
Servo control / positioning	> 06/2021	



# F2J REMAN PLANT'S MODERNIZATION



## → TEST BENCH CELL RENOVATION

Test Bench Cell Renovation

01/2018 ✓



## → FLOW OPTIMIZATION / LAYOUT

Warehouse re-implementation

05/2018 ✓

Building for core storage

01/2019 ✓

Assembly - Dismantling - Test bench areas re-implementation

03/2018 ✓



## → ENVIRONMENT / ENERGIES

Evaporator

01/2021 ✓



# F2J REMAN PLANT'S MODERNIZATION



## INTRODUCTION OF A NEW TECHNOLOGY OF VISION

Automatic tracking / recognition of parts

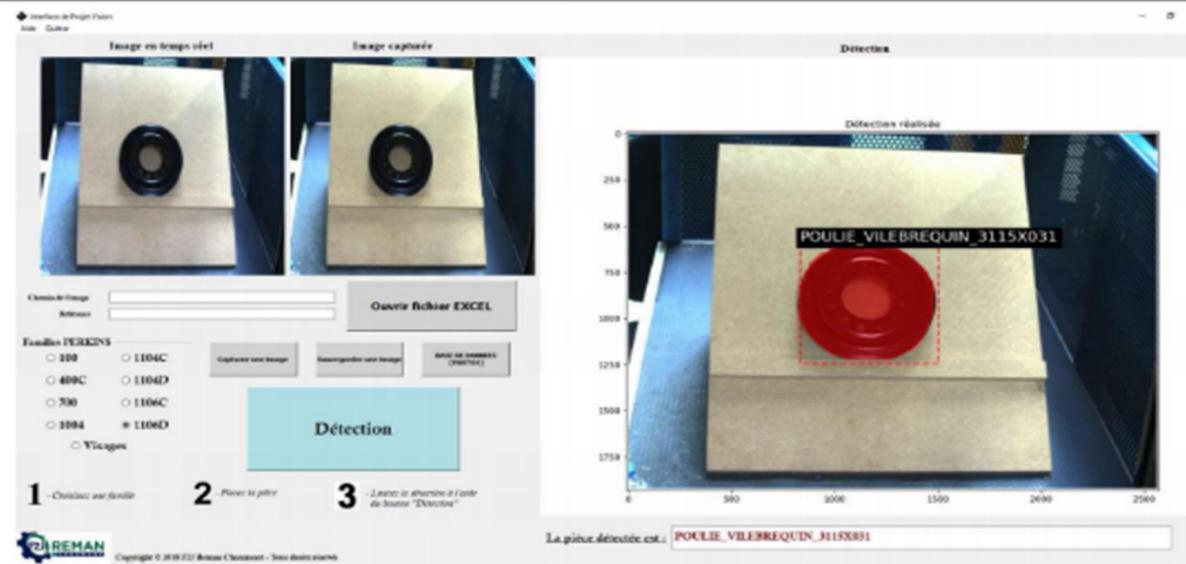
Since 03/2018



Automatic elimination of bad parts (pn, condition)

Next step

### Parts identification: how does it work?



- Identify the part's P/N
- Say if the part is for this engine or not allowed to be used
- Help the operator to check the part
- Feed the ERP with the information



# F2J REMAN PLANT'S MODERNIZATION



## F2J REMAN RADOM NEW PLANT

End of Factory Construction

Start of Factory Operations

Chaumont Test Bench upgrade (container)

Test Bench reception & training in Chaumont

Transfer Test Bench to Radom

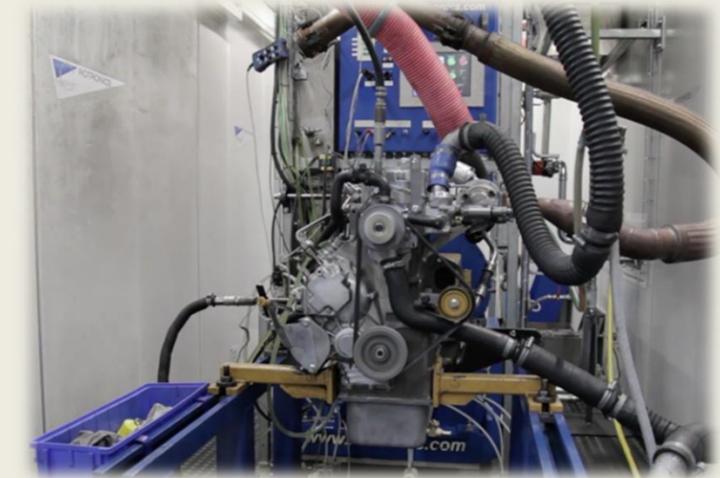
07/2019 ✓

10/2019 ✓

07/2019 ✓

02/2019 ✓

Q4 2020 ✓

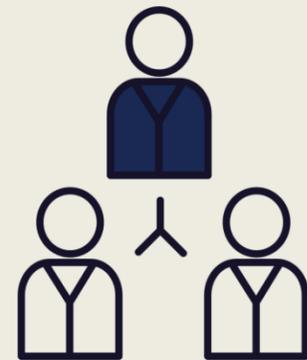




# ABOUT F2J INDUSTRY...



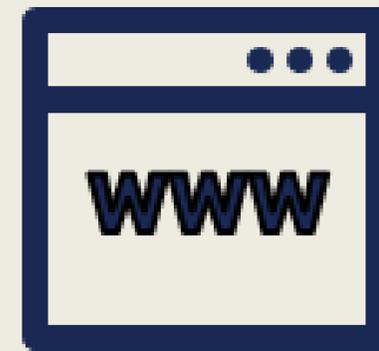
Turnover: 191 M€



1 323 employees



4 plants in France  
1 plant in Poland  
3 plants in Argentina  
1 plant in Brazil  
2 plants in Spain  
1 plant in USA



<http://f2jindustry.com>



<https://www.linkedin.com/company/f2jindustry>



# INDUSTRY

## INDUSTRIAL GROUP OF COMPANIES

Revision N° : 2026-01



### ARGENTINA



#### Córdoba

Turnover: 33,8 M€ / 184 Employees  
12.354 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 14001 and ISO 9001



#### Córdoba

Turnover: 15,2 M€ / 222 Employees  
16.000 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 14001 and ISO 9001



#### Buenos Aires

Turnover: 7,6M€ / 112 Employees  
12.000 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 14001 and ISO 9001



### USA



#### Indiana

Turnover: 7,1 M€ / 30 Employees  
5.000 m<sup>2</sup> Factory surface  
Certified IATF 16949



### BRAZIL



#### São Paulo

Turnover: 40,8 M€ / 363 Employees  
22.000 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 9001, ISO 14001 ISO 45001 and Tisax certified



### SPAIN



#### Pamplona

Turnover: 8,2 M€ / 38 Employees  
7.000 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO14001



#### Zuera

Turnover: 26,1 M€ / 102 Employees  
6.000 m<sup>2</sup> Factory surface  
Certified IATF 16949 and ISO 14001



### POLAND



#### Radom

Turnover: 5,3 M€ / 30 Employees  
3.200 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 14001 and ISO 9001



### FRANCE



#### Auxi-le-Château

Turnover: 8,2 M€ / 57 Employees  
26.000 m<sup>2</sup> Factory surface  
Certified IATF 16949 and ISO 9001



#### Chaumont

Turnover: 15,3 M€ / 57 Employees  
9.700 m<sup>2</sup> Factory surface  
Certified IATF 16949 and ISO 14001



#### Bessines-Sur-Gartempe

Turnover: 10 M€ / 68 Employees  
12.000 m<sup>2</sup> Factory surface  
Certified IATF 16949 and ISO 9001



#### Valentigney

Turnover: 12,9 M€ / 60 Employees  
18.894 m<sup>2</sup> Factory surface  
Certified IATF 16949, ISO 14001 and ISO 9001



Number of employees: 1323



3 sites in Argentina / 1 site in USA / 1 site in Brazil / 2 sites in Spain / 1 site in Poland / 4 sites in France



Annual TO: 191 M€

THANK YOU FOR  
YOUR ATTENTION

