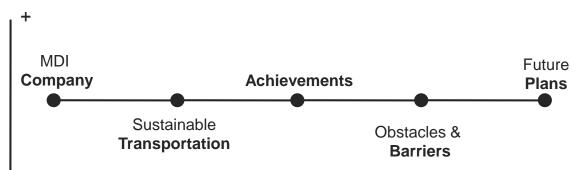


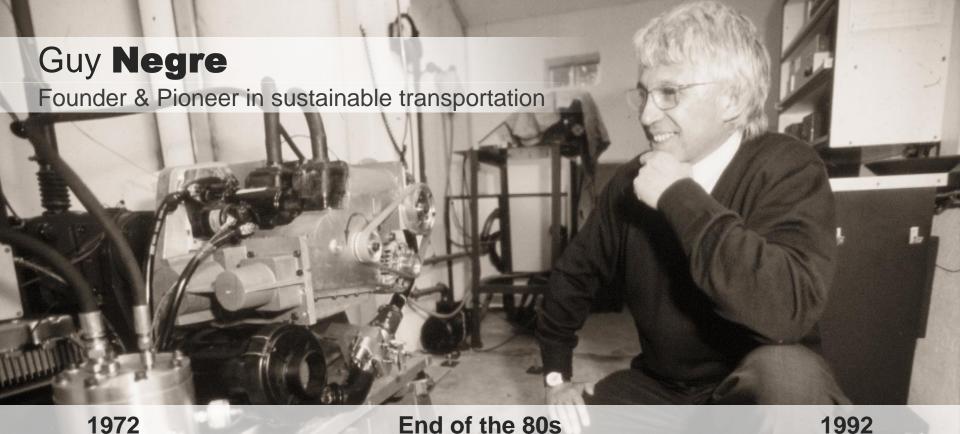


oowering the future we want

# Summary







1972 UN Stockholm Conference End of the 80s A new vision

UN Rio de Janeiro

Earth Summit

# Guy **Negre**

Founder & Pioneer in sustainable transportation

"Ecology will only have a real impact if it is accessible to all "

-1991







# Sustainable **Transportation**

#### **Problems**

non-renewable resources



geopolitical dependance



big, polluting & inhuman production factories



rigid & expensive manufacturing processes



huge energy & water utilisation & soiling



heavy & polluting supply chain



expensive technologies



range constraints



## Sustainable **Transportation**

#### **MDI Solutions**











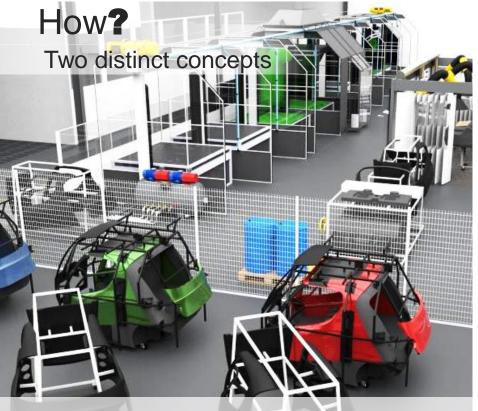


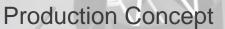


<u>וכאן</u>

low energy/water

consumption



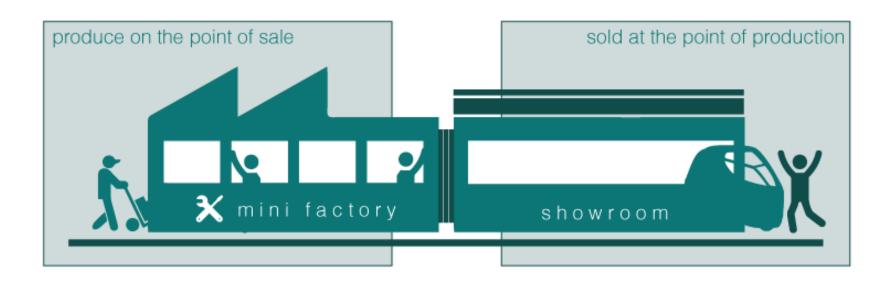




Compressed Air Technology



# III.1 MDI Production Concept

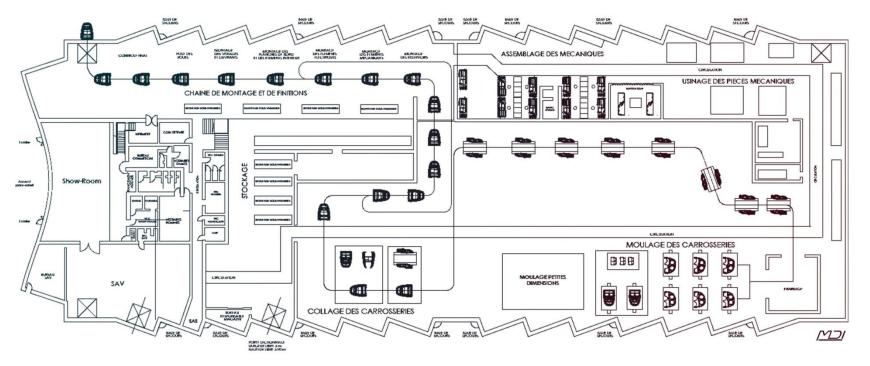






# Factory **Layout**







## All around the World

Implantation





### MDI Process Benefits

#### **Earth-friendly**

1/3 ground compared to classic factories

Best energy repartition for production

No pollution due to transport of finished products



#### **Economical & Social**

Local employment

30% more workers

Knowledge & expertise sharing

Partnership network



#### **Quality / Technical**

Use of techniques not compatible with mass production

Functions integration thanks to composite materials

Increased energy efficiency through technology



#### **Costs & Benefits**

Reduction in import taxes

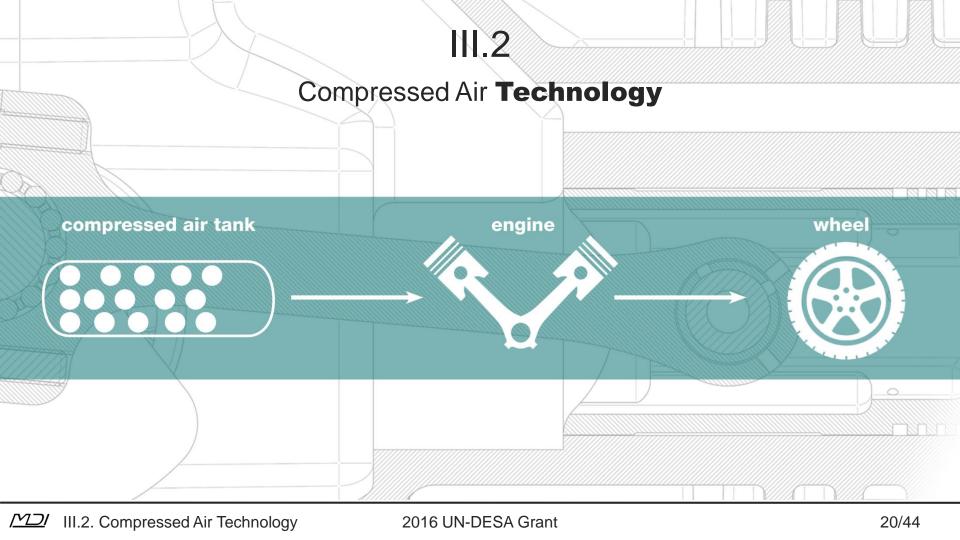
No stock of spare parts

Logistic costs drastically reduced

Decreased costs of production

Affordable products

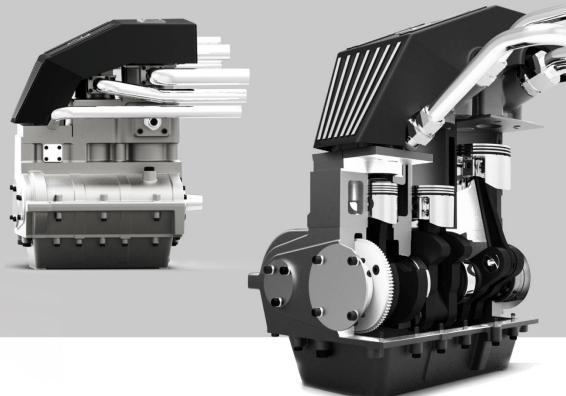




# Air Tank & Engine

Simple & Efficient





# Compressed Air Technology Benefits

#### **Energy vector**

Universal

Does not involve any reserve replacement

Constant performances

Well-known



#### **Quick refill**

Quick charging time

No range constraint

Renewable compression



#### **MDI** engine

High efficiency

Simple

Well-known mechanical parts

Reliability

Flexibility



#### **MDI Products**

Scalable / multiple applications

Lightweight

Life cycle



# **III.3** Examples of **Products**



# AirPod 1.0



# AirPod 1.0 **Development**

### Design Process













# AirPod 1.0 **Development**

Approval















# AirPod 2.0 **Development**

New model design







# AirBOM Light

Development & approval





# III.4 MDI **Partnerships**















# Obstacles & Barriers

#### **Cultural barriers**

Reluctance to change from Interlocutors

- Professionals
- Manufacturers
- Institutions

### Financial barriers

Need for funding due to

- The size of the company
- The nature of and duration of the project

Monopolistic behavior of manufacturers in the transport market (relayed by the institutions).

### **Government barriers**

Rigidity and complexity of

domestic standards

## **Technical barriers**

Solved:

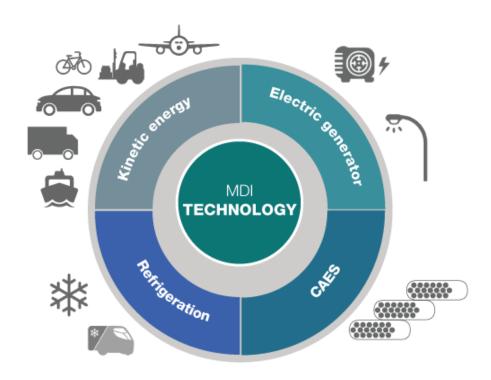
Increase the engine efficiency to match urban expectations

Very low temperatures

Systems & engine control



# Scalable **Technology**





# Short **Term**

**Generating Sets** 







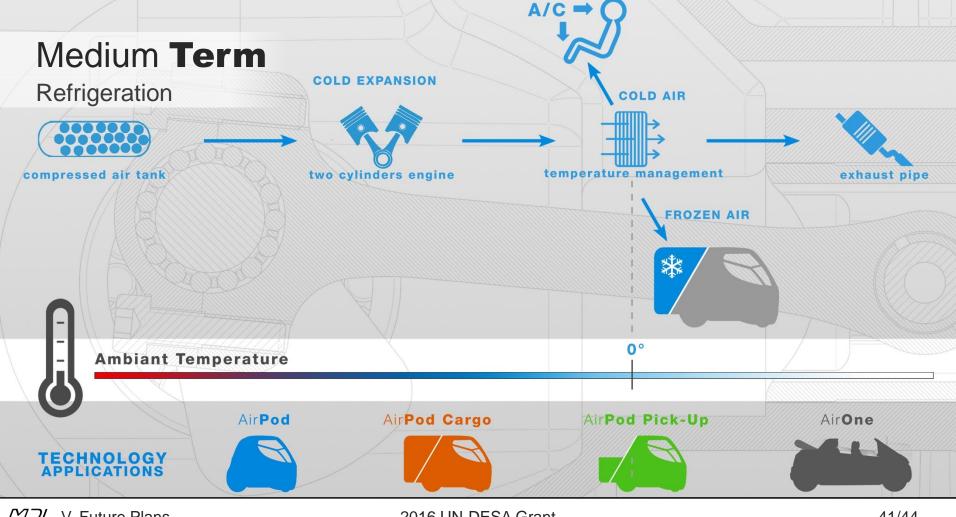








AIR POWER



MDIV. Future Plans2016 UN-DESA Grant41/44

## Medium **Term**

AirPod 2.0 Range











