

## The vehicles of the Desiro family have been systematically further developed





Mittelrheinbahn **AM08 SNCB** ÖBB cityjet Raaberbahn

# **Desiro ML**



**Thameslink South West Trains** Moorgate

# **Desiro City**



Rhein-Ruhr-Express

# Desiro HC

**Unrestricted © Siemens AG 2016** 



Varied capacities and lengths

Trailing bogie with

inside bearings

Weight-optimized car bodies



Inner ceiling concept





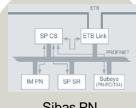
Different

entry heights

DC Link traction concept



Always Connected!



Sibas PN vehicle control

June 2016 Page 2



#### Proven expertise meets innovative solutions

# Mireo

The new modular system for regional and suburban transportation:

the customizable and economically attractive solution for comfortable, premium-class commuter transport.





## The Mireo has to satisfy the most diverse demands













**Unrestricted © Siemens AG 2016** 

Page 4 June 2016



## The Mireo has to satisfy the most diverse demands











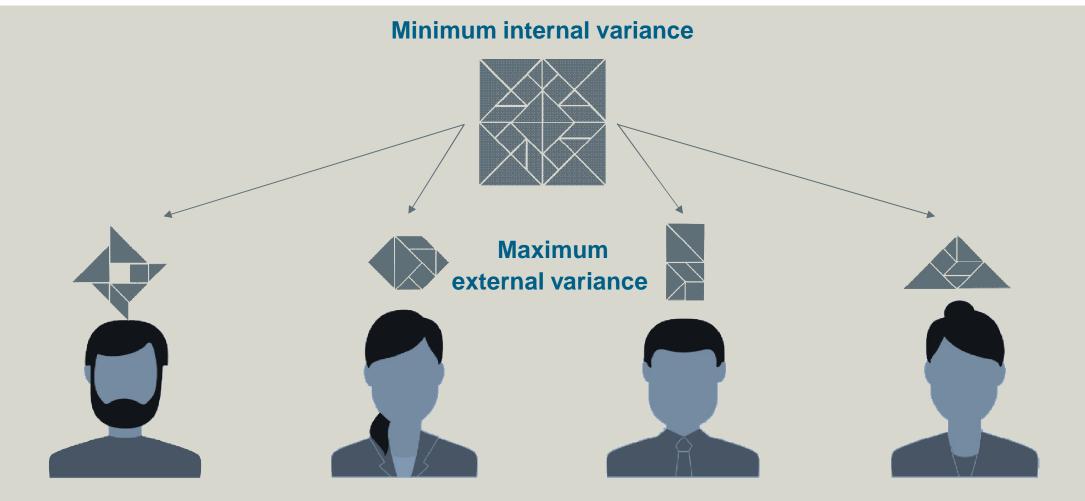


**Unrestricted © Siemens AG 2016** 

Page 5 June 2016



## The Mireo has to satisfy the most diverse demands

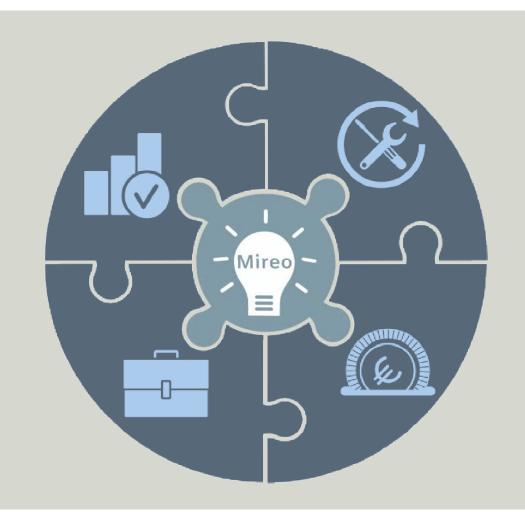




#### The Mireo concept is based on four components

Energy efficiency down the line

Faster into service thanks to efficient modular system



Uncompromising flexibility

Reduction of lifecycle costs: Vehicles, service and financing from one hand

# The philosophy of the modular system – Standardization and multiple use of modules



Satisfy customer customization requirements: Standardization of basic functions

Standard interfaces allow changes without extensive construction adjustments

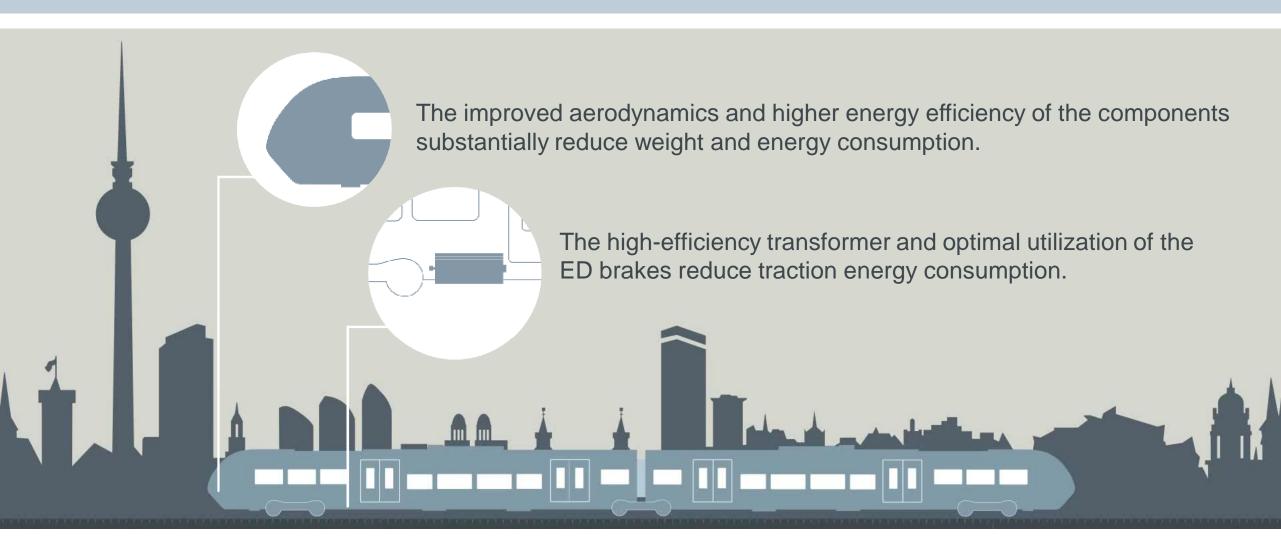
Standardization and multiple use of modules in various projects



Variants derived from predefined solutions

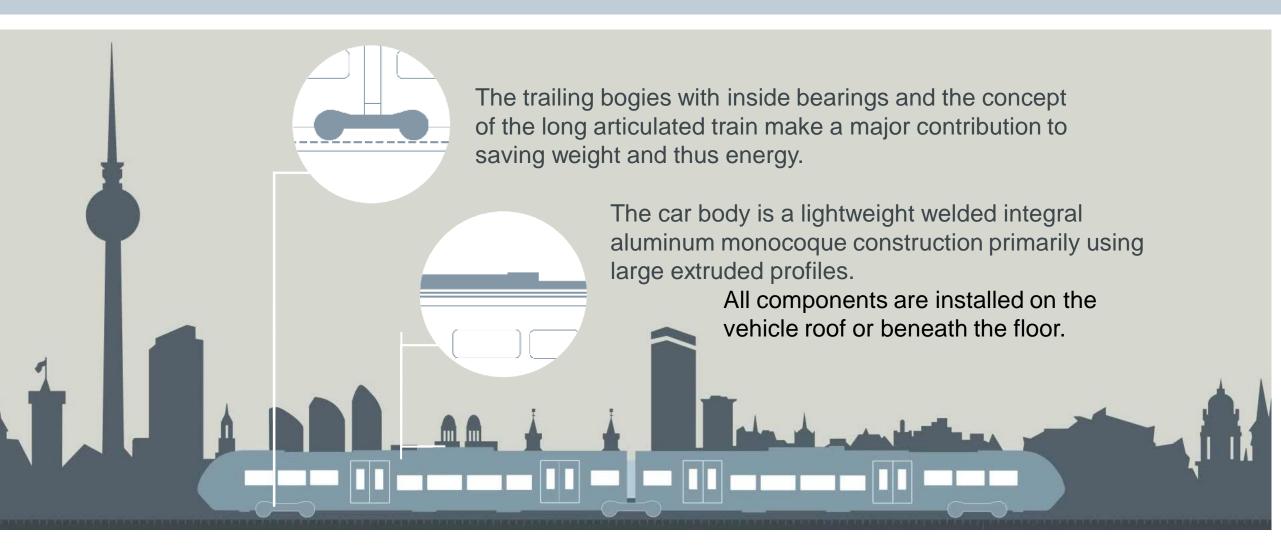
Independent innovation cycles for the different modules

#### **Energy efficiency down the line**



Unrestricted © Siemens AG 2016

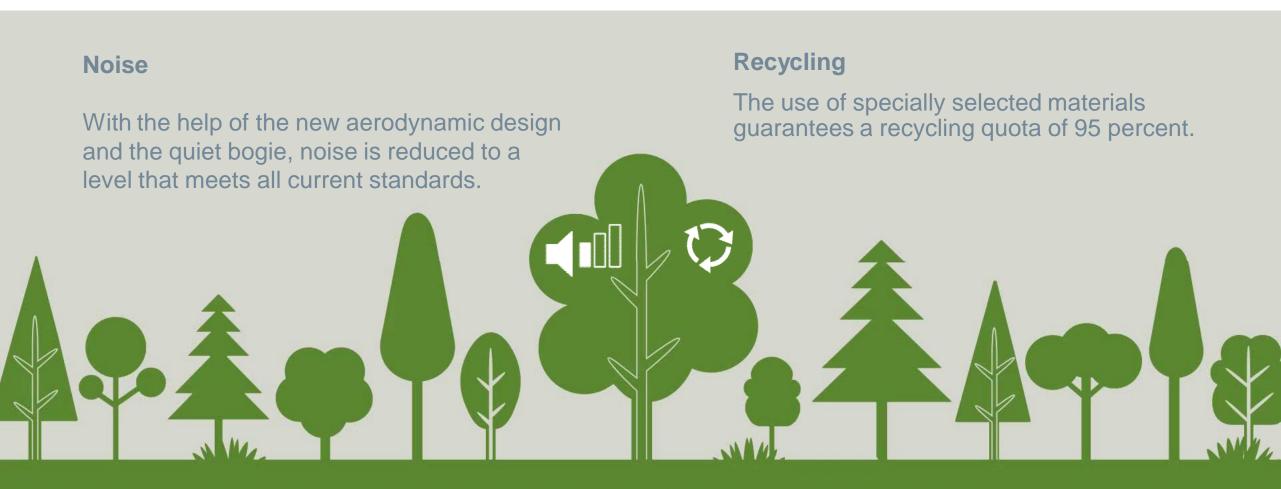
#### **Energy efficiency down the line**



Page 10 June 2016



#### Mireo – the environmentally friendly concept



Unrestricted © Siemens AG 2016

Page 11 June 2016



#### Mireo – the environmentally friendly concept

#### **Energy consumption**

The lightweight construction, energy-efficient components and an intelligent board management system reduce energy consumption by 25 percent and the driver assistant system contributes a further 30 percent saving in energy.



## **Uncompromising flexibility**



**Unrestricted © Siemens AG 2016** 

Page 13 June 2016 Mobility Division



#### Uncompromising flexibility thanks to »empty bodies«

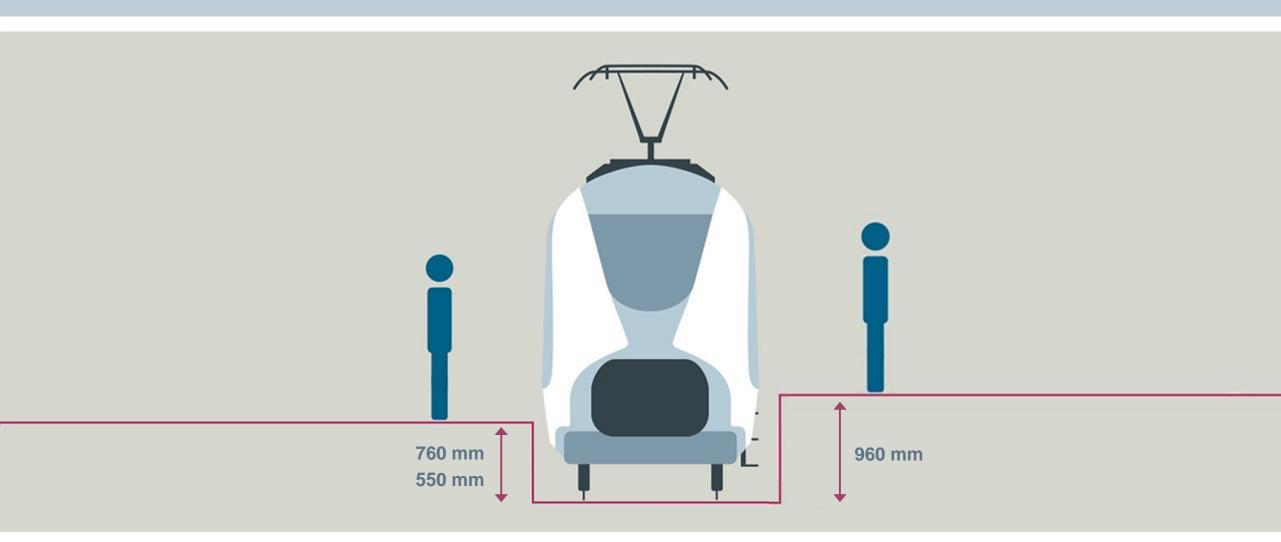


#### The interior belongs to the passengers!

- Maximum flexibility of interior design
- Simple covertability of interior space
- Optimally designed for cleaning
- Usable interior area is fully available for passengers
- Maximum capacity through more seats at same train length



# Flexible operations through variable entry heights

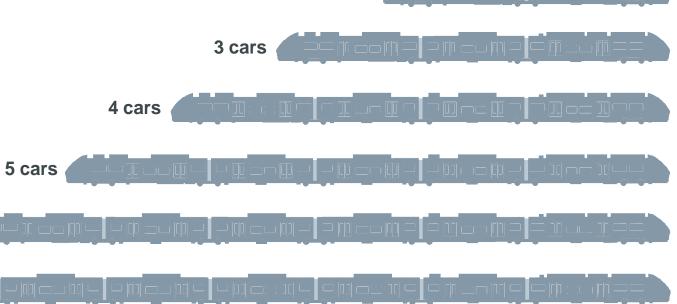




#### Flexible operations through variable traction concepts

7 cars

- Flexible capacity adjustments through various car body lengths and train configurations
- 2- to 7-car trains (~ 50-140m) possible.
- Scalable traction concept with ECO, Midi and Speedy (maximum speed 140/160 km/h) options.



2 cars

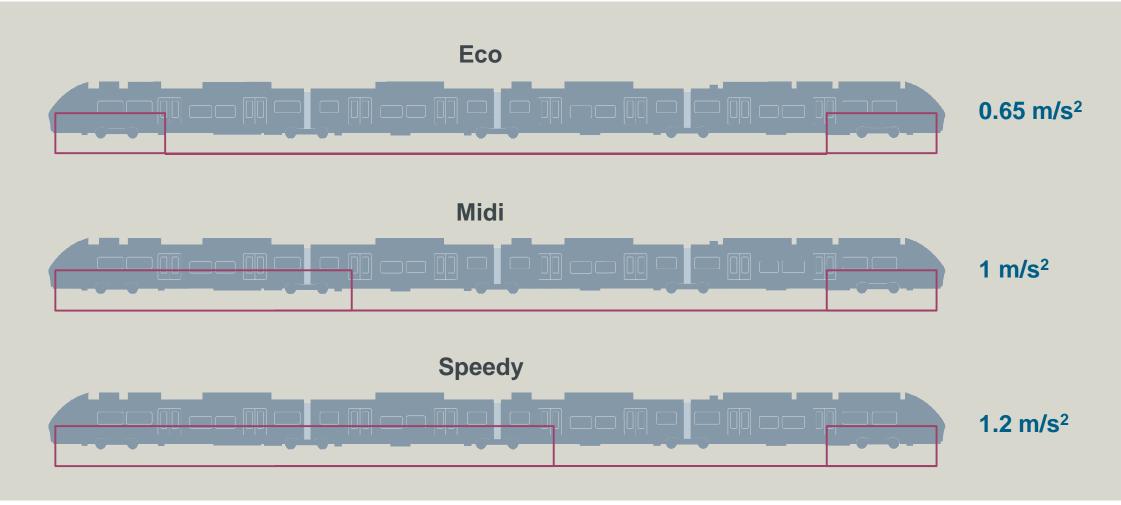
**Unrestricted © Siemens AG 2016** 

Page 16 June 2016 Mobility Division

6 cars

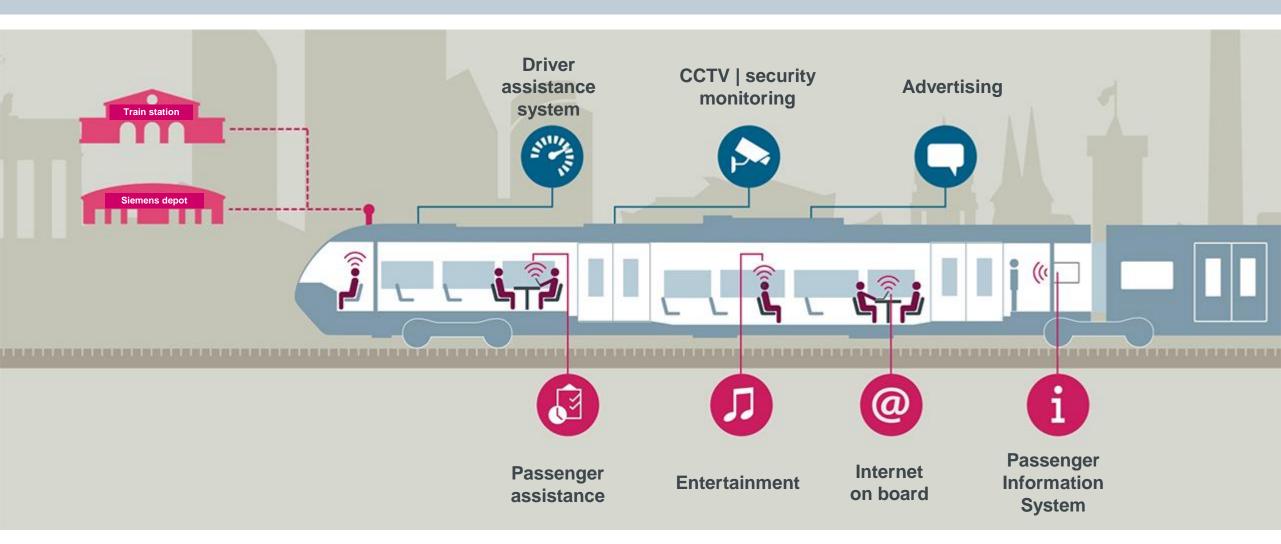


#### **Bogies for Eco, Midi and Speedy**





## Service for seamless mobility – »Always connected«



Unrestricted © Siemens AG 2016

Page 18 June 2016

#### Overview of the Mireo features and benefits

