

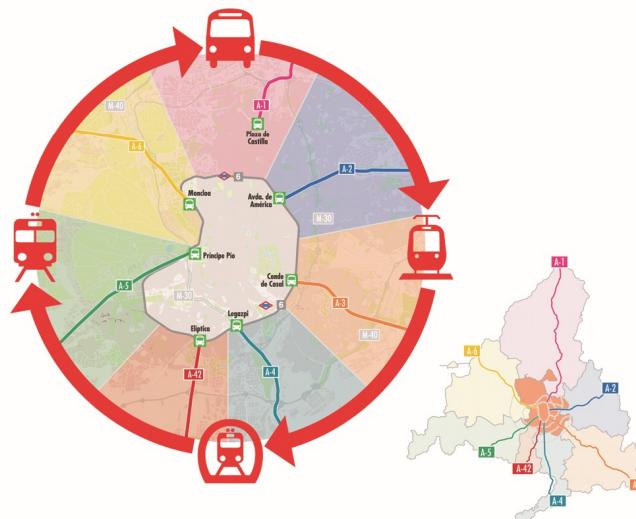
# CONSORCIO REGIONAL DE TRANSPORTES DE MADRID

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Arquitecto

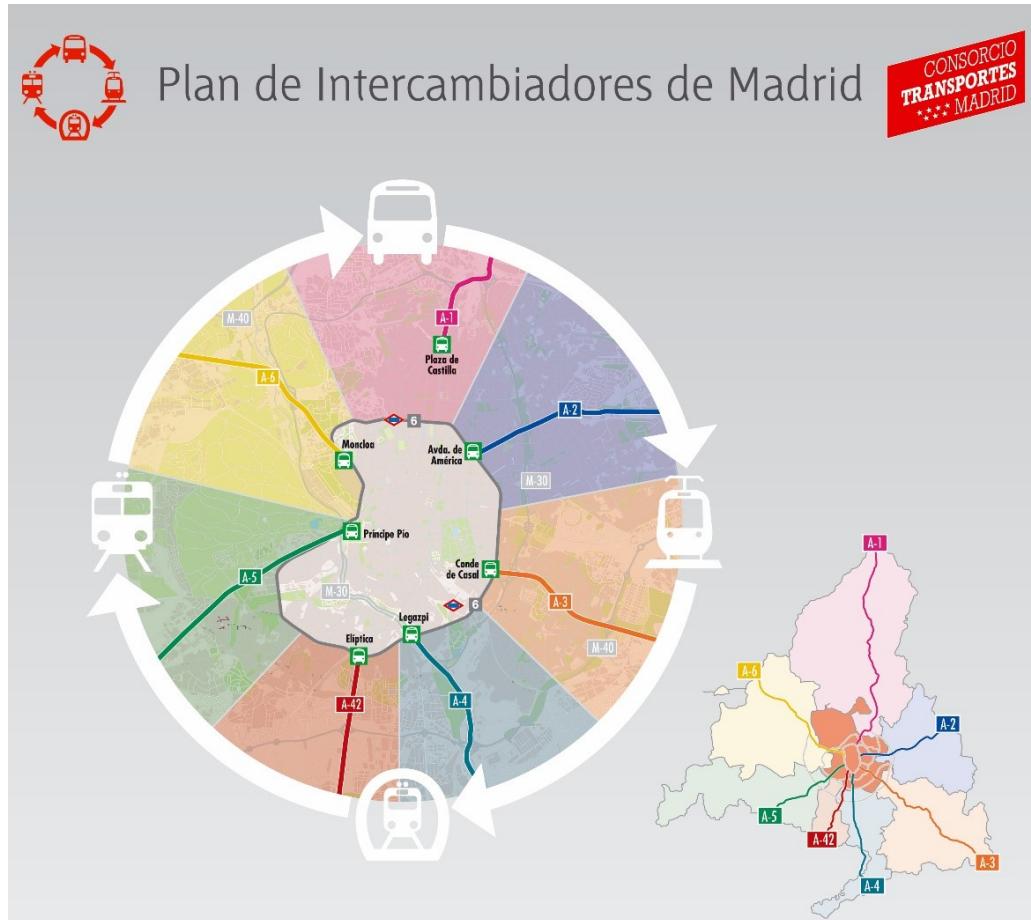


## Moving towards new urban centralities: Madrid's multimodal stations



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# Madrid' interchange plan, since 1986



- ✓ Increase the use of public transport
- ✓ Improve transfer conditions
- ✓ Create a ring of interchanges well connected with the metro system
- ✓ Increase the quality of life
- ✓ Improve the environment

Multimodal stations: 4 main steps

Planning

Designing

Building up

Management

# Planning multimodal stations

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1890

2004



# Planning multimodal stations



- ✓ Be sure of the location. Multimodal stations have to be where people demands them, not where they are easy to build because we have free land.
- ✓ Integrate land use planning with urban infrastructure planning.
- ✓ Integrate different modes and mobility demands, trying to adapt to users demand and promoting more sustainable transport. Soft transport modes are welcome (walking, biking, ...).
- ✓ Solve accessibility issues and integration into the environment.

**Design the best infrastructure**

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**Transfer**

**Security**

**Information and way finding**

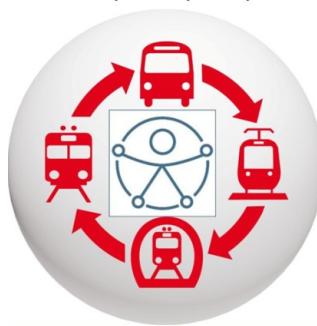
**High quality construction**

# Design the best infrastructure

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## Transfer

- ✓ Reduce the time for transfer from one transport mode to another, one minute of savings represent many hours
- ✓ Reduce travel time, users will thank you every day
- ✓ Optimize waiting time, we feel like it counts twice
- ✓ Design for everybody, design inclusively.



# Design the best infrastructure

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## Security

- ✓ Must be able to support growth in demand
- ✓ Designed based on your rush hour
- ✓ Designed to accommodate external factors
- ✓ Users needs to feel completely safe



# Design the best infrastructure

## Information and wayfinding

- ✓ Design open and clear spaces
- ✓ Real time information for wayfinding and for confirmation
- ✓ Personalized and digital information are necessary
- ✓ Use airports as example of quality and orientation for multimodal stations



# Design the best infrastructure

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## High quality construction

- ✓ Use durable materials
- ✓ Think about solutions ten years from now
- ✓ Multimodal stations are infrastructures with high demand and they need high quality materials



## Buiding up

- ✓ Look for the future functionality of people not about the complication of execution
- ✓ Engineering holds everything, people don't
- ✓ Controls the execution, it will increase the life of the infrastructure
- ✓ A well executed work is for life



# Management

- ✓ Useful life is long and a high level of quality must always be maintained
- ✓ Extreme pollutant control in underground multimodal stations
- ✓ Environmental comfort conditions (ventilation, humidity, climate, lighting, cleaning,...)
- ✓ Write a good specification for maintenance thinking about the use of the infrastructure over time



## Conclusions

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- ✓ Plan conveniently, without haste
- ✓ Design for the most vulnerable people, the rest will thank you
- ✓ Build with future technology and quality, everything is quickly obsolete
- ✓ Maintain the infrastructure as if you were inaugurating it every day

**!Thanks for your attention!**



**CONSORCIO REGIONAL DE TRANSPORTES DE MADRID**

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