

# The success story

## of the **ROPEWAY** in Coblenz

more than 4.6 million passengers transported in six months

Reinhard Fitz

# Let's have a look at Coblence

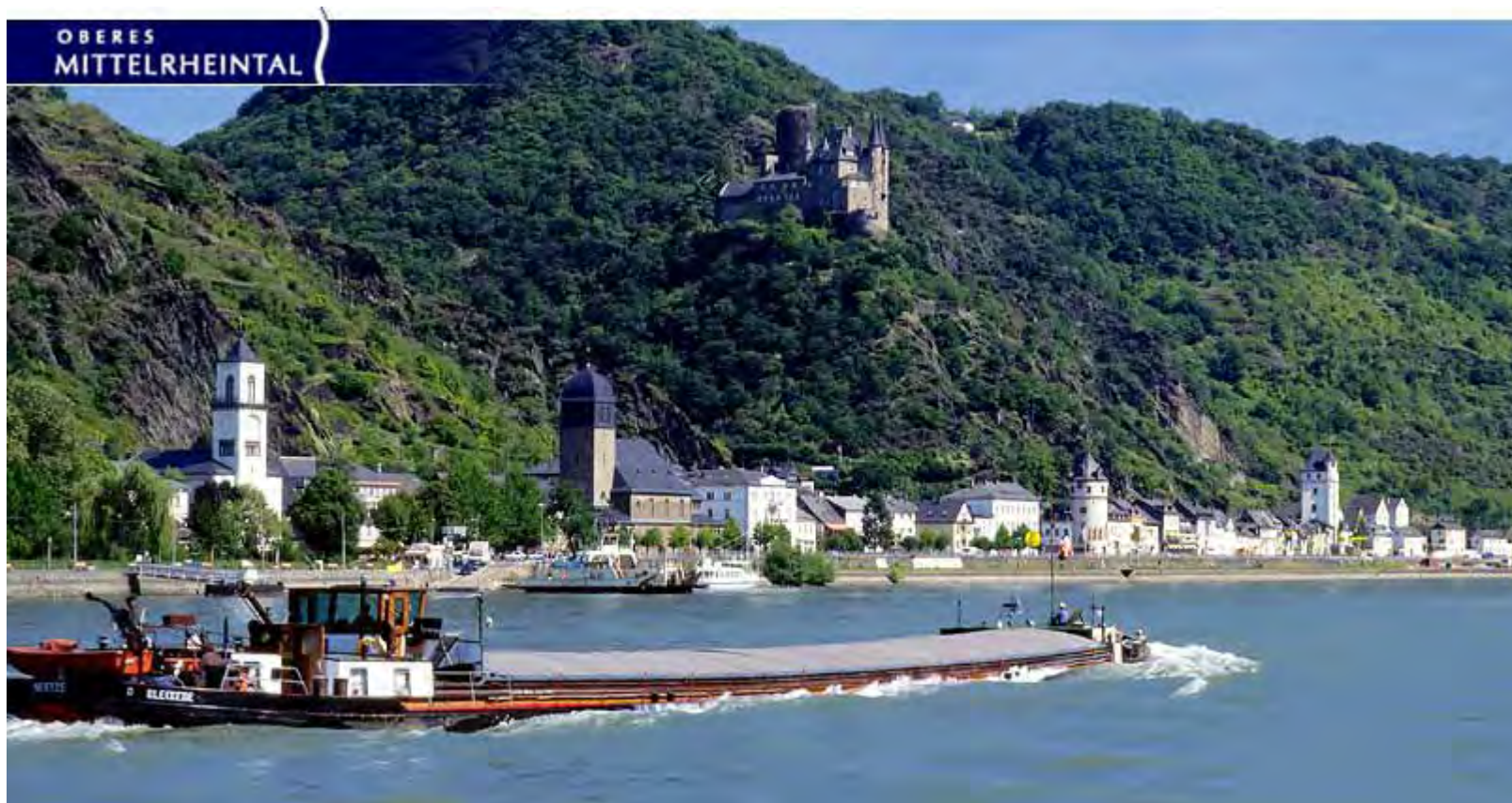
- a city in Germany with 120,000 inhabitants
- where the rivers RHINE and MOSELLE meet





# Let's have a look at Coblence

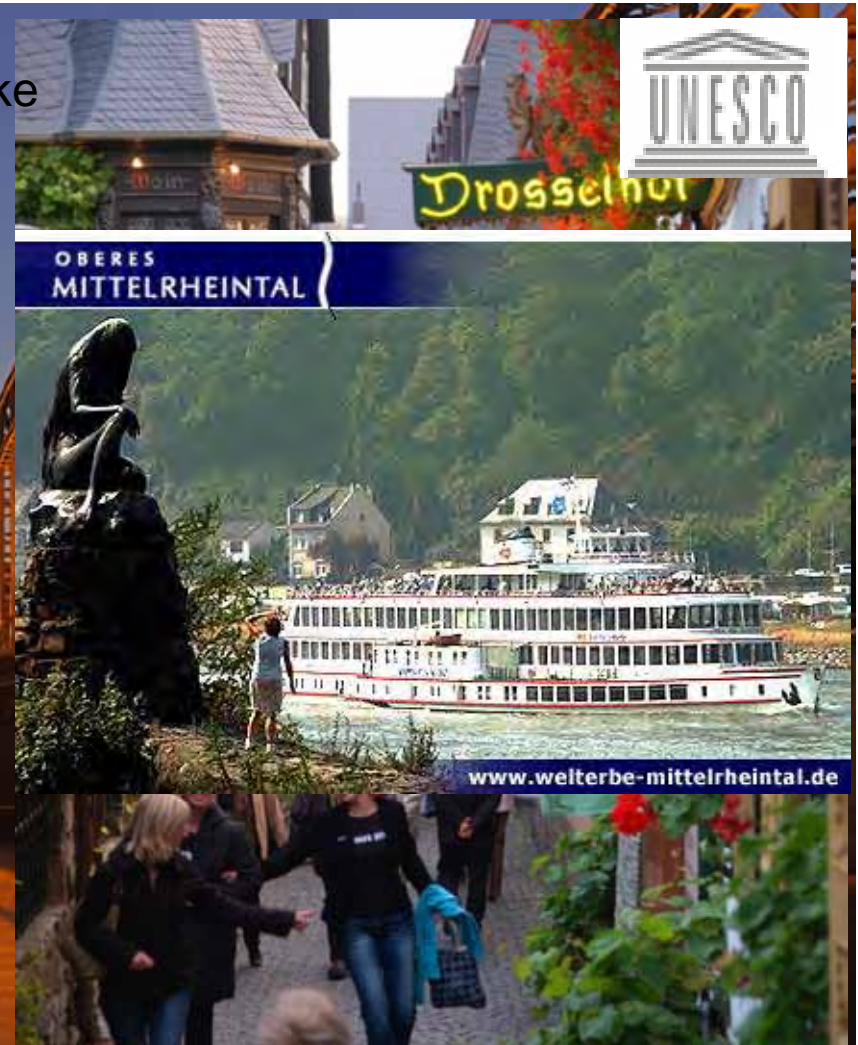
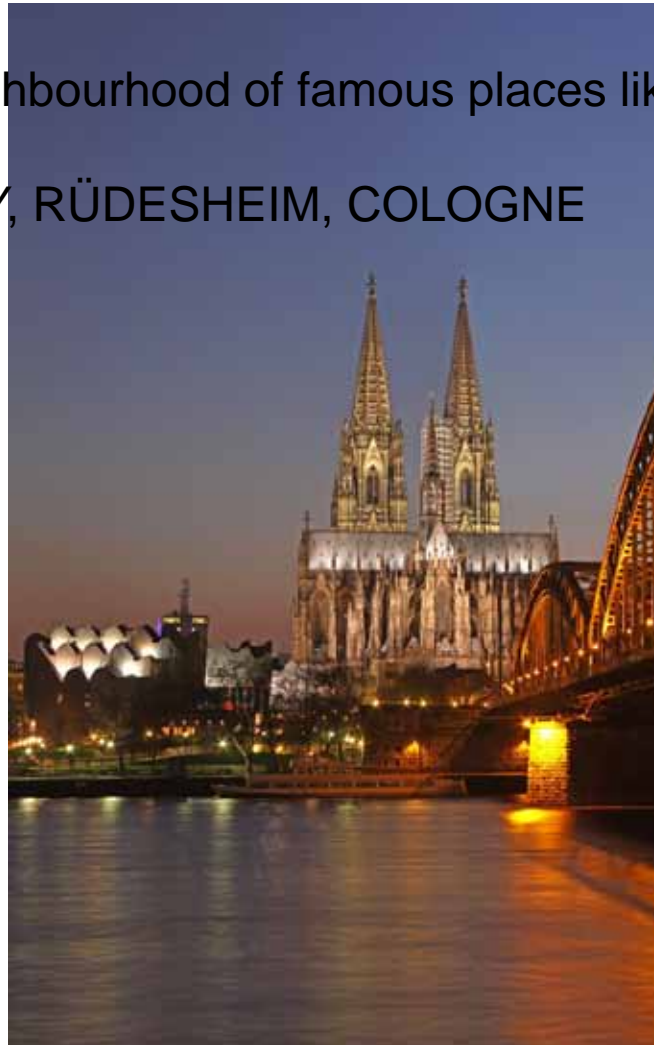
- located at the beginning of the UNESCO world heritage area  
“The Upper-Middle-Rhine-Valley”



# Let's have a look at Coblence

- in the neighbourhood of famous places like

LORELY, RÜDESHEIM, COLOGNE





Let's have a look at Coblence

**The host city of the BUGA 2011**



**Bundesgartenschau 2011**  
**Koblenz verwandelt**



# BUGA 2011 in Coblenz

- The horticultural show, is held in various cities of Germany every two years





# BUGA 2011



The BUGA is:

- presenting horticultural architecture and public events over a period of six months
- reflecting the city's unique location and history





# BUGA 2011



-sustainably changing and upgrading public areas





# BUGA 2011



The challenges:

Linking the core areas

185 operation days from April to October

2 million visitors mean  
4 million passengers

Up to 35,000 visitors on peak days

# The traffic concepts



## Bus Shuttle:

1,000 –1,500 rides per day

Every 1 – 1.5 minutes

7 km distance in 25 minutes

735,000 bus km during the Buga

## Ropeway:

Capacity 7,200 PPH

Every 30 sec. 35 persons

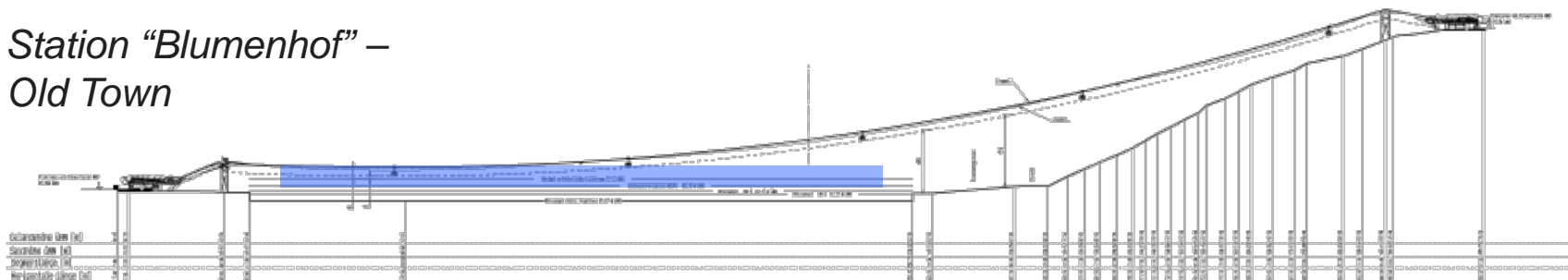
950 m distance in 4 minutes



# The topo

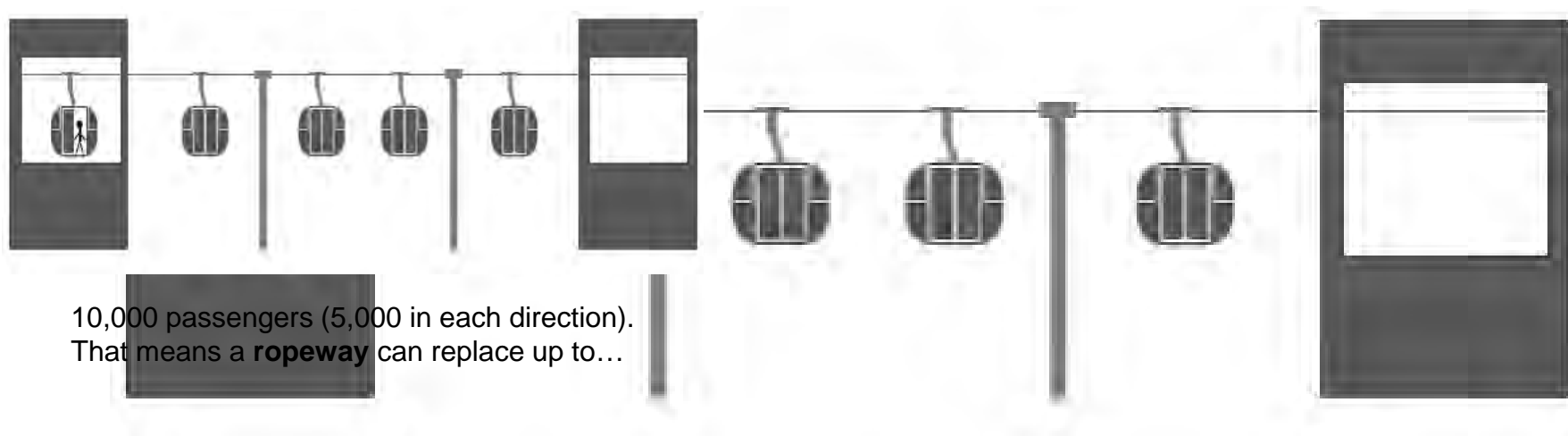
## Station Ehrenbreitstein Fortress

### Station "Blumenhof" – Old Town



- horizontal length: 882 m
- longest span: 823 m
- difference in elevation: 112 m
- trip time: 5 min
- number of cabins: 18
- interval of cabins: 37 s
- capacity: 3,600 PPH and direction

# The equivalent....

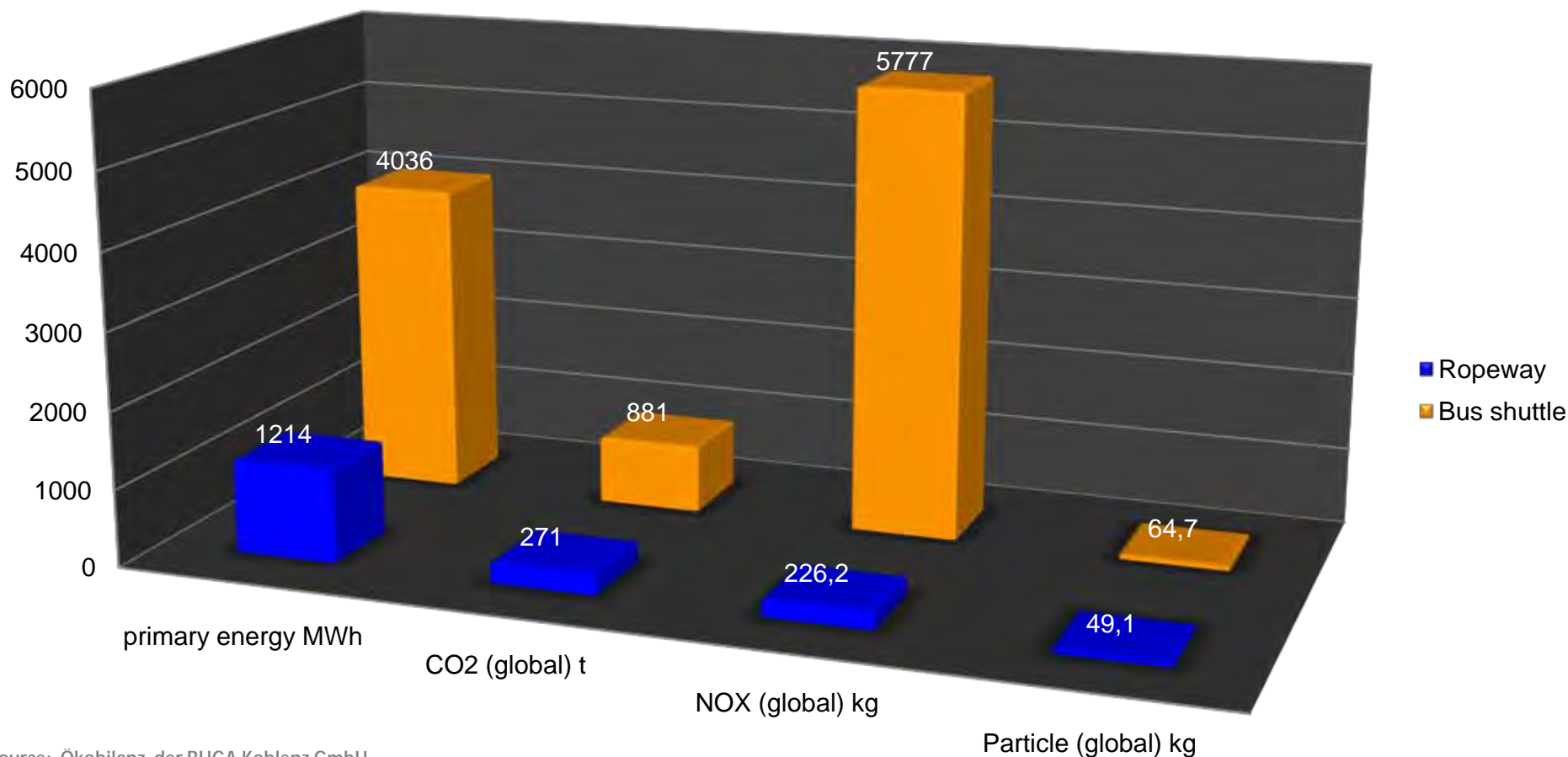


10,000 passengers (5,000 in each direction).  
This means a **ropeway** can replace up to...





## Comparison between the ropeway and bus shuttle service during the BUGA Coblenz in terms of energy and exhaust emissions (primary energy conventional electricity)

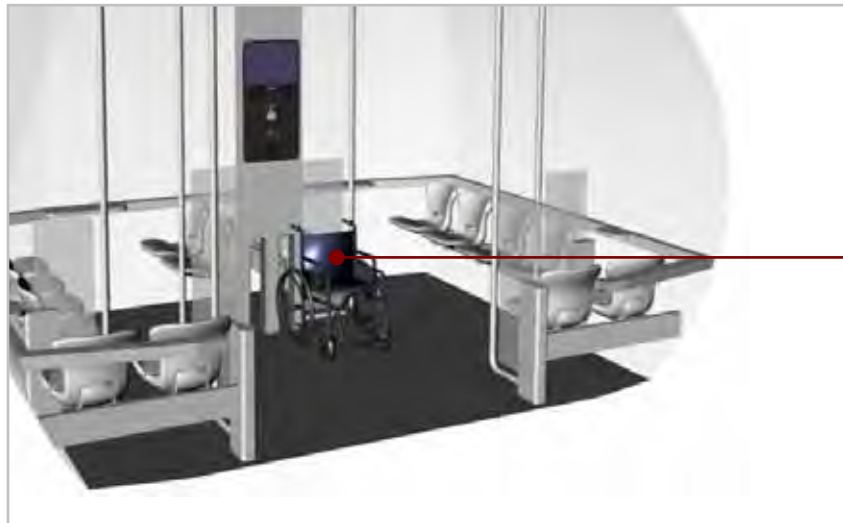


Source: Ökobilanz der BUGA Koblenz GmbH

## Function and features







Wheelchairs



Bicycles



## Safety, accessibility





Independent operation level

## Urban design





## Tourist attraction



## Conclusion

**Can a ropeway be a  
serious transport  
solution?**



## Reporting facts

**.... a powerful transport system**

- **More than 4.6 m. passengers in six months or 185 days or 2,500 hours operation time**
- **On average 1,840 PPH**
- **More than 50,000 passengers on a peak day**

## Conclusion

**.... Transportation service for everyone**





Feedback

Feedback

**.... Mayor Dr. Hoffmann-Göttig**