"Cities need more than metros – KfW's approach to urban mobility

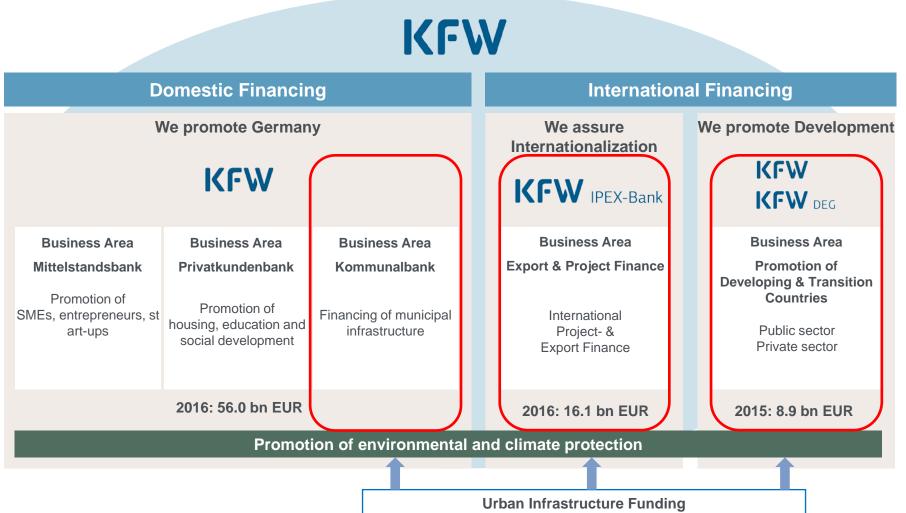
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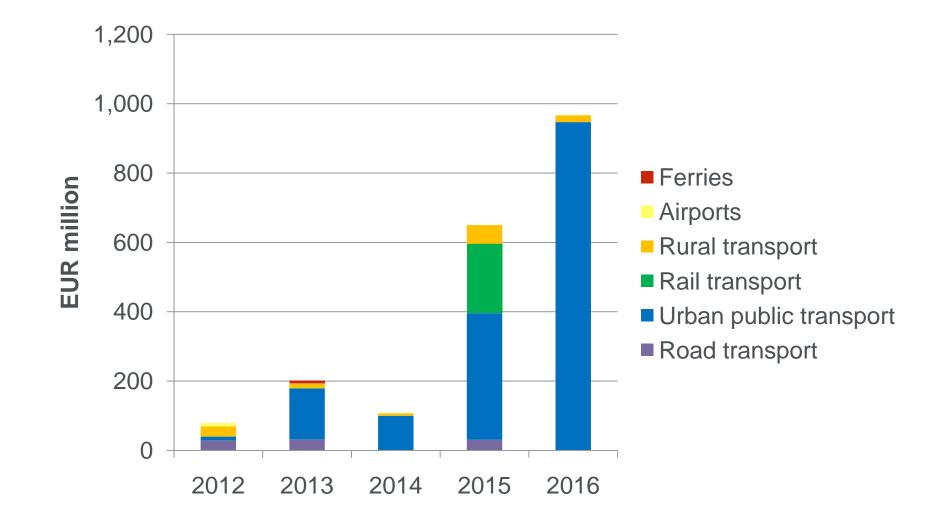




»» KfW Group at a glance: a bank with various tasks



>>> KfW Development Bank: investments in transport



>>> Main features of well-designed urban transport systems

Comprehensive planning

- Holistic approach to urban transport planning
- > Equitable transport user balance

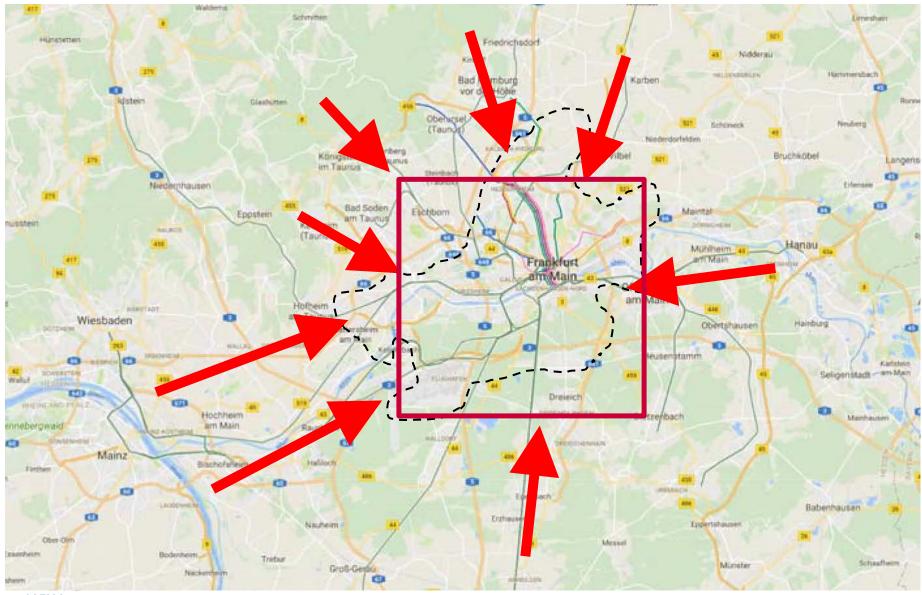
Layered network

- > High capacity mass transit systems are not needed everywhere
- Variety of public transit systems in one city

Integration

- Seamless transfers
- > Suitable institutional arrangements

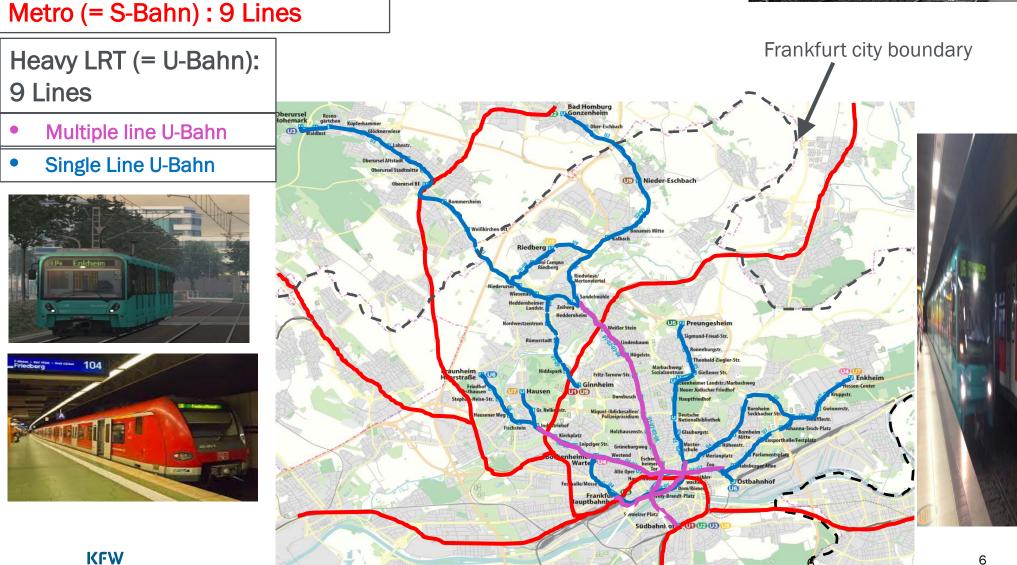
>>> Cities need more than metros: example of Frankfurt



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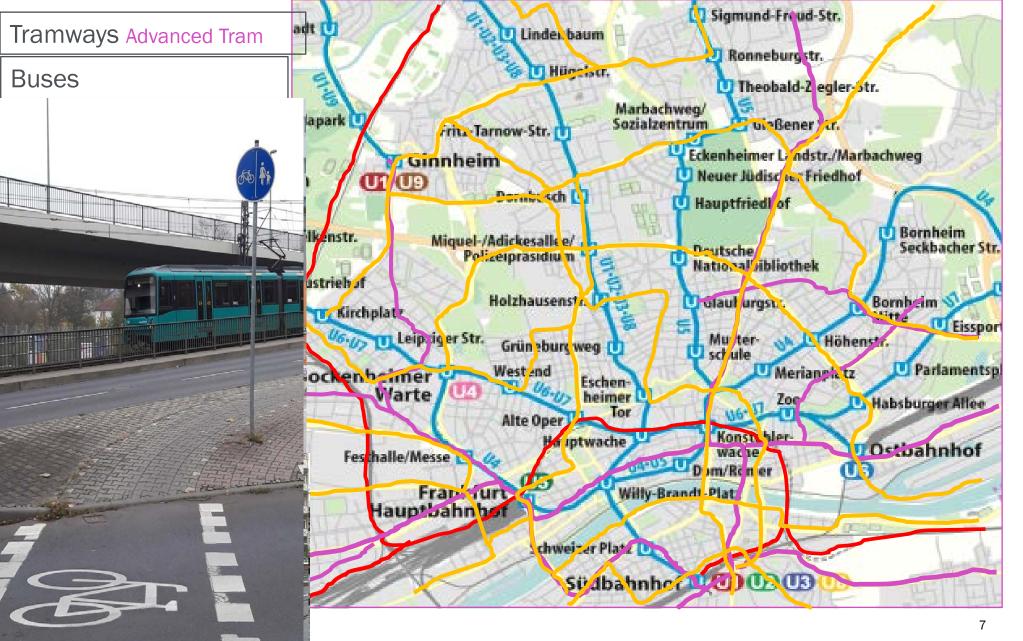
>>> Cities need more than metros





»» Cities need more than metros





>>> Some key features of LRT systems (1)

Heavy LRT looks like a "light Metro", but several features provide greater flexibility, versatility and cost effectiveness

- Articulated vehicles allow turning radius as low as 25m (Metro minimum radii 120m)
- Ability to easily operate in exclusive, partially segregated and mixed ROW modes (metro must use exclusive ROW mode only)
- Can effectively function at-grade through major road intersections (even at 32,000 PPHPD)







>>>



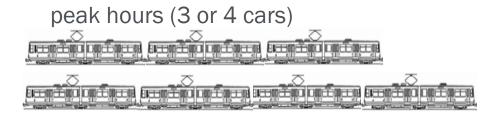
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- » Some key features of LRT systems (2)
 - Flexible trainset size: 1 to 4 carriages to meet demand from 5,000 to 32,000
 PPHPD (metro min. 3 carriages)





- → investment costs: reduced by 15-20% if same alignment as metro, but actual network cost savings are typically 40-70% (because more at-grade alignment is possible)
- \rightarrow annual O&M costs: savings of 20-25% due to high flexibility in trainset size

off-peak hours/ weekends

in the second bactory

>>> KfW's approach in our partner countries



Mix of policy framework, capacity building and adequate funding is key to success.

»» Thank you

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>>> Heavy LRT – the missing or hidden MTS option?

