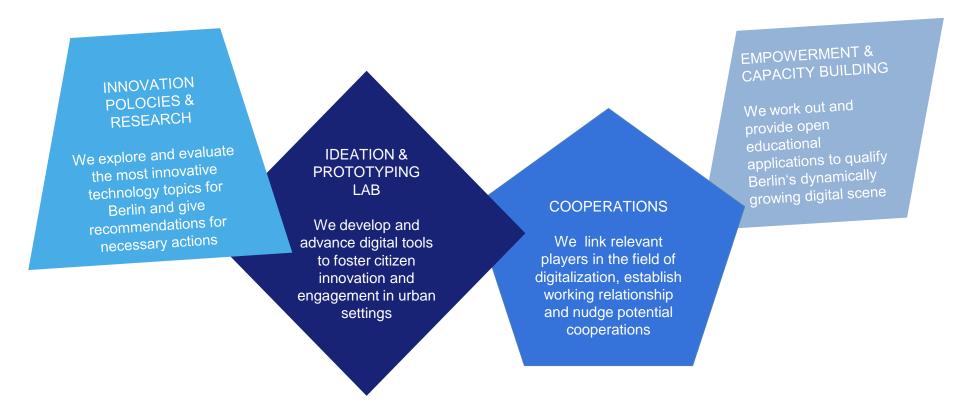
Urban Production – Berlin-Mix 2.0

Anne-Caroline Erbstößer I 12.11.2018

Technologiestiftung Berlin

We are committed to transform new ideas into reality and shift digitalization projects emerging from Berlin's scientific R&D community into action.



Production in the City- Berlin Mix 2.0

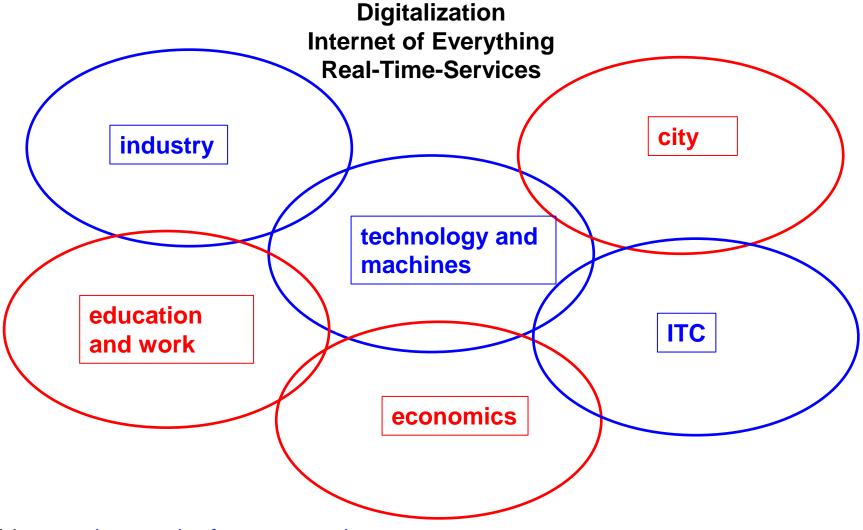


What means Industry 4.0 for the City?





Industry 4.0 in Berlin is more than manufacturing

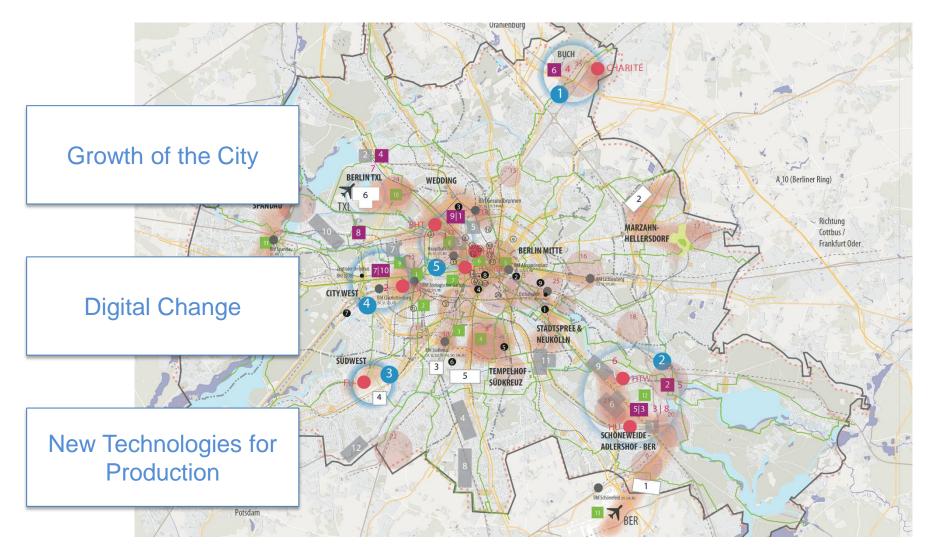


blue: we know a lot from research

red: we only know a little

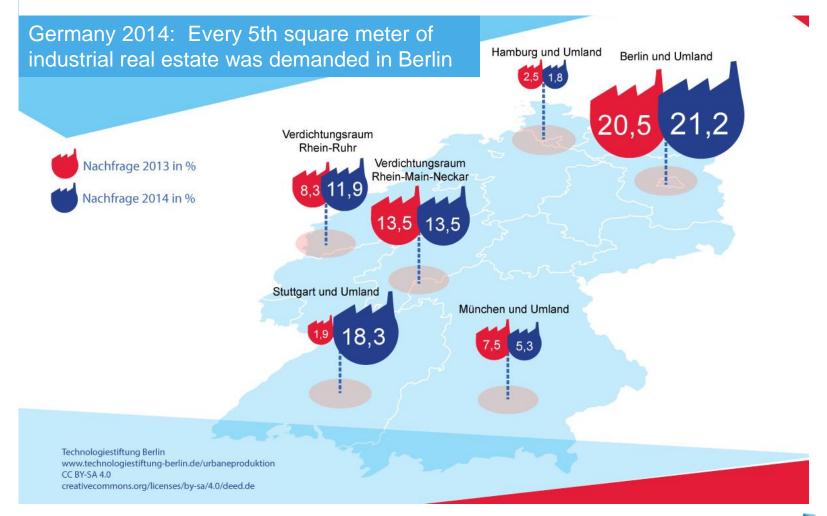


What are the drivers of urban production in the city?



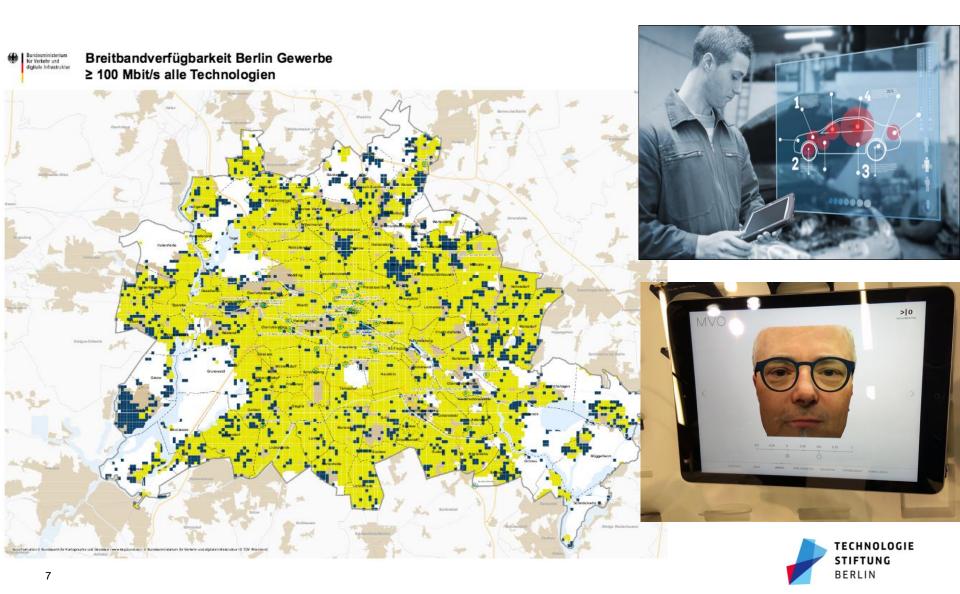


Growing City: Increasing demands for industrial and commercial areas

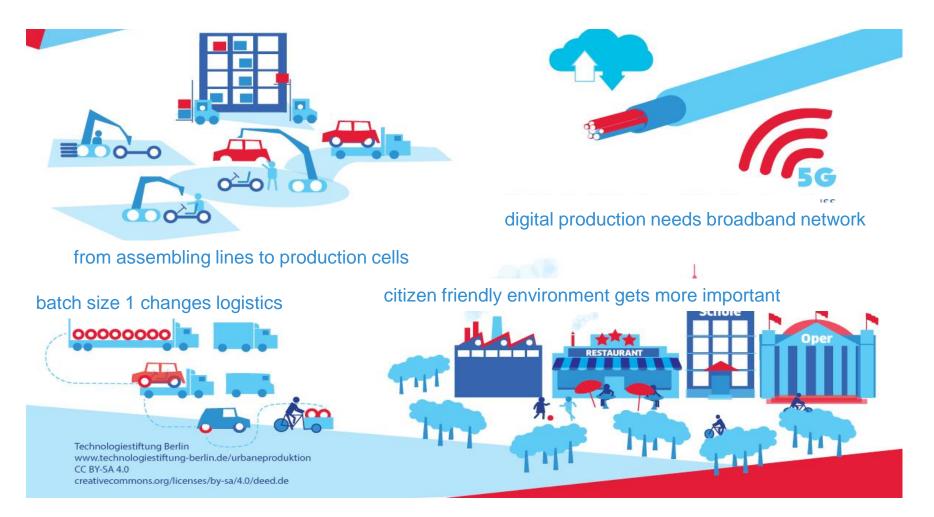




Urban Production and Digital Change



Industry 4.0: New technologies and new work processes change the needs of factories and their sourroundings

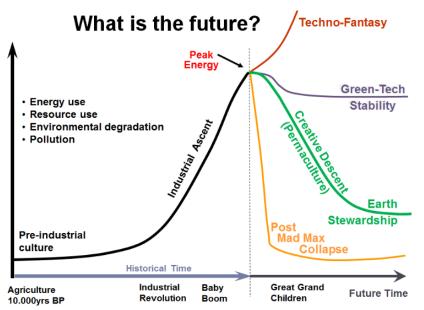




New production technologies change workspaces



Climate Change and Co2 Footprint: Urban Production affects energy consumption, material flow and logistics?!





Polymer Manufacturing Distribution Energy and material recovery

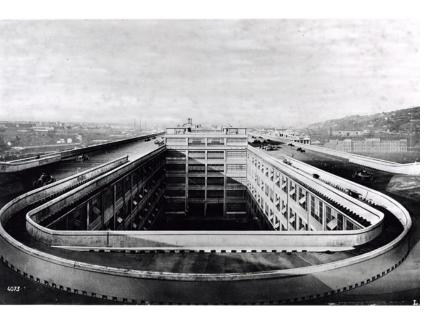
Use End of Life Recycling Thermovalorisation

http://www.taplast.c om/wpcontent/uploads/201 6/07/product-lifecycle-800x300.png

Graham Wood, Managing Consultant -Business Transformation



History of Urban-Factory: Save ground and verticalize!

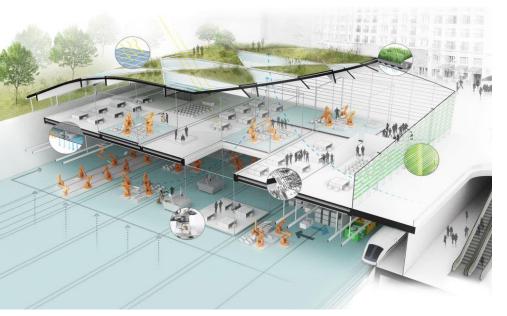








Urban-Factory: The Future

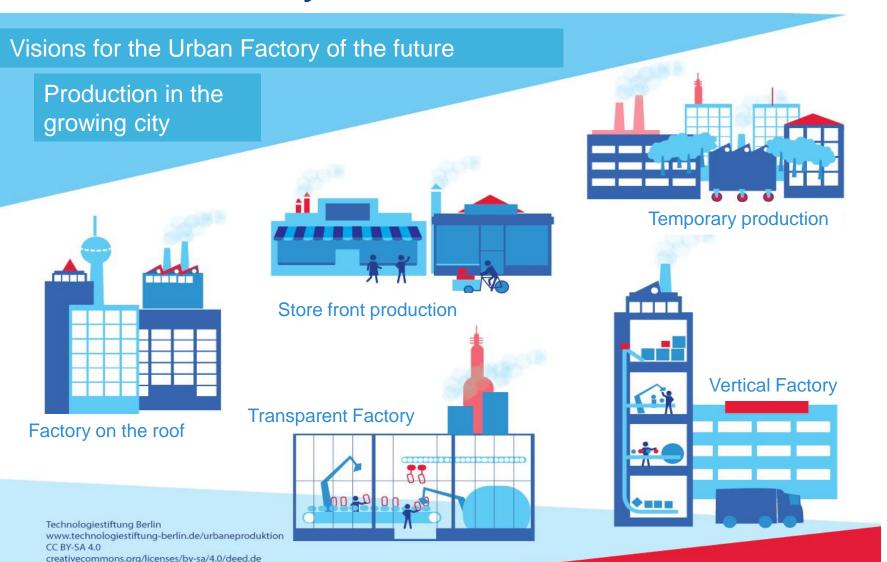








The Urban Factory: What are the trends?

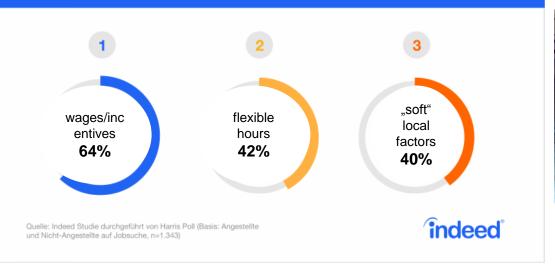




Location Factors for Urban Production in the City

- Infrastructure
- Business Location
- Synergies

Permanent workers look in a new job for:





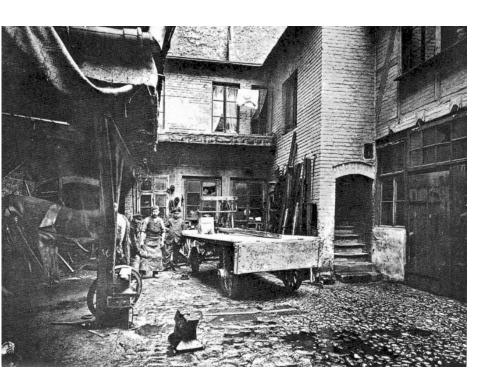
Klassische Zustellfahrzeuge werden mittelfristig nicht durch Lieferdrohnen ersetzt werden können.

© Paketda-Fotomontage





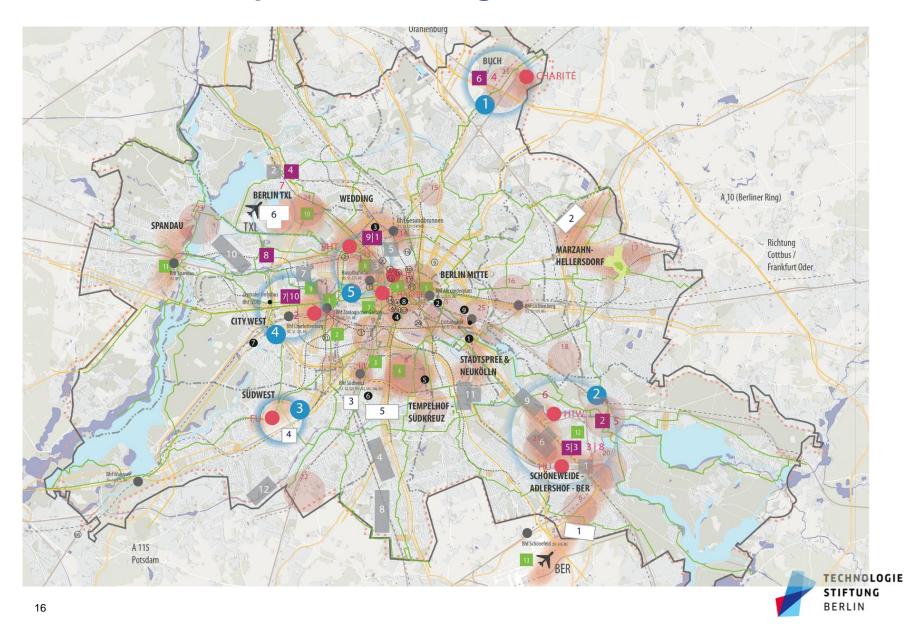
Mixed Use Aereas now and back then: Urban Production in the Backyard



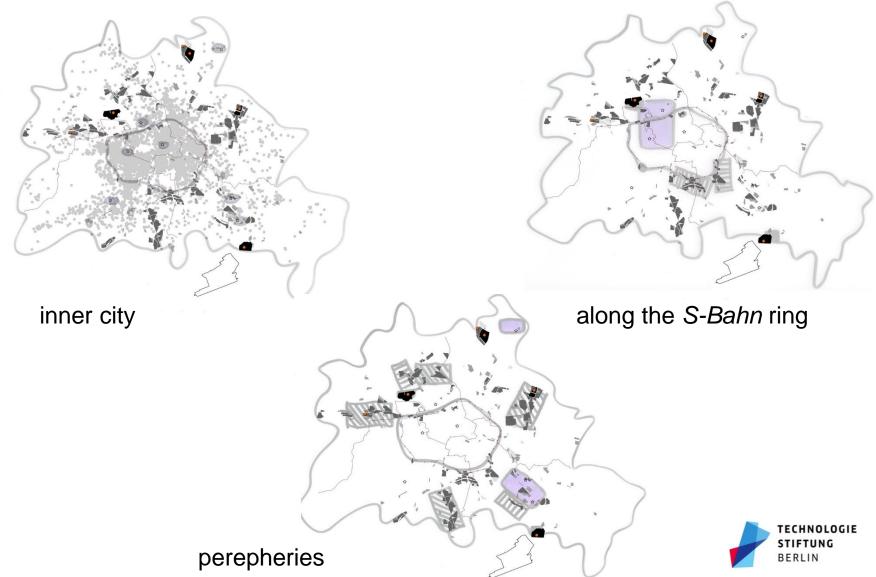




Urban Development Planning in Berlin



Berlin's Urban Development: Where to go with production in a growing city?



Mixed Use Areas in the Heart of Berlin: Gewerbehof (Trading Yard) and Industrial Area and



residential use...







Berlin Mix 2.0: Recommendations

- Establish a wider form of consensus for urban production in the city and organise local business networks. Involve all stakeholders in the planning process.
- Land Development Plans, building laws etc.: all planning tools should be fully exploited to support urban production. Provide incentives for city districts for making urban production areas available.
- 1. Implement the infrastructure needed for industry 4.0 and digital production, in particular fast broadband and new standards (like G5) for all industrial and commercial areas.
- 1. Support research into the effects of urban production on sustainability, CO2 footprint and resource efficiency, in particular using test and simulation areas; research the effects of "batch size 1" on logistics and environment.
- Use new ways of looking at things: eg. plan vertical, plan mixed use areas as noise buffer along main roads and traffic lanes, or support areas with different commercial and industrial use and make them user friendly so people could linger there comfortably.

Thank you for listening

Merci pour votre attention

This Project of the Technologiestiftung Berlin was promoted by grants of the City of Berlin and the Investitionsbank Berlin.





