

M2M business opportunities beyond connectivity. Example T-City Friedrichshafen.

Jürgen Hase ,Vice President M2M Competence Center, Deutsche Telekom AG Connected Living Summit, Gothenburg, October 23rd, 2012

Life is for sharing.



M2M market view.

Deutsche Telekom serves a broad variety of market segments, which provide horizontal as well as vertical business opportunities.

M2M Ecosystem Horizontal business opportunities 1. Transport & logistics 2. Vehicle telematics Vertical business opportunities 3. Smart metering/Smart grid 4. Connected consumer electronics 5. Security Retail & commerce 7. Industrial automation, monitoring & control 8. Health care 9. Public sector & infrastructure

T-City was started in 2007 as a DT Group-wide project.

Internal objectives.

- A lighthouse project categorized as high priority by the Group Board of Management of Deutsche Telekom
- As many innovation projects stemming from the entire Group as possible implemented at one location for the first time
- Demonstrate synergies created based on a state-of-the-art ICT infrastructure

External objectives.

- Demonstrate the social added value provided by innovative information and communication technologies (ICT)
- Present the opportunities and potential provided by improved
 - Communication options
 - Technical simplifications
 - Time and money savings
 - Resource preservation

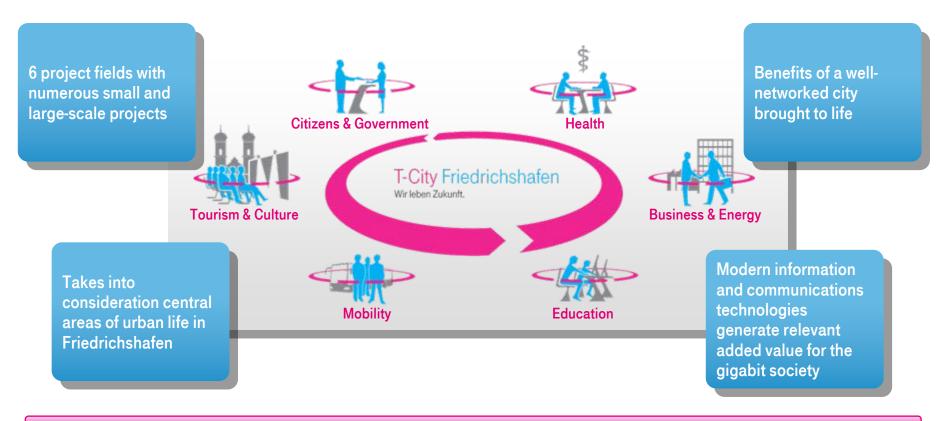


"For us, T-City is a unique, innovative beacon project with special importance, as the Deutsche Telekom Group is cooperating with an entire town. We created T-City to demonstrate what we understand under the collective achievement of an innovation-friendly, integrated telecommunications Group."

René Obermann, February 2007



6 original project fields.



During the first phase of T-City (2007 – 2012), more than 40 projects were implemented.



Spotlight on energy projects. Transition to Smart Grids in Practice.

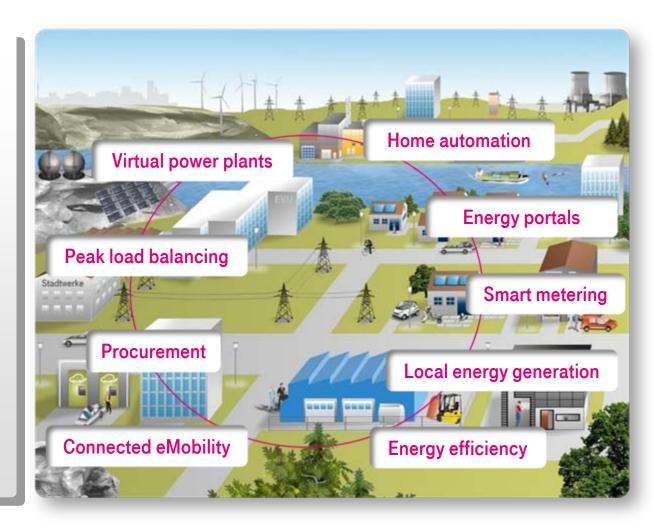
Energy @ T-City.

Objectives

- Test secure ICT infrastructure for new energy world
- Generate benefits for utility and end-users
- Enable energy efficiency: transparency and control
- Integrate prosumers to manage loads and optimize procurement

Project examples:

- Smart metering as base
- Home networking
- Smart grid to the home (PV, mCHP, heat pumps)
- Virtual power plants
- Energy efficiency for SME and MNC
- Portals for different stakeholders
- Connected eMobility





Smart City Key Success Factors have been mastered and lead to a continuation of our partnership.

Key Success Factors.

- Cooperation with local stakeholders
- Open innovation with partners
- Zukünftler (futurist households)
- Communication
- High visibility
- Strong executive support within DT
- High-level stakeholders

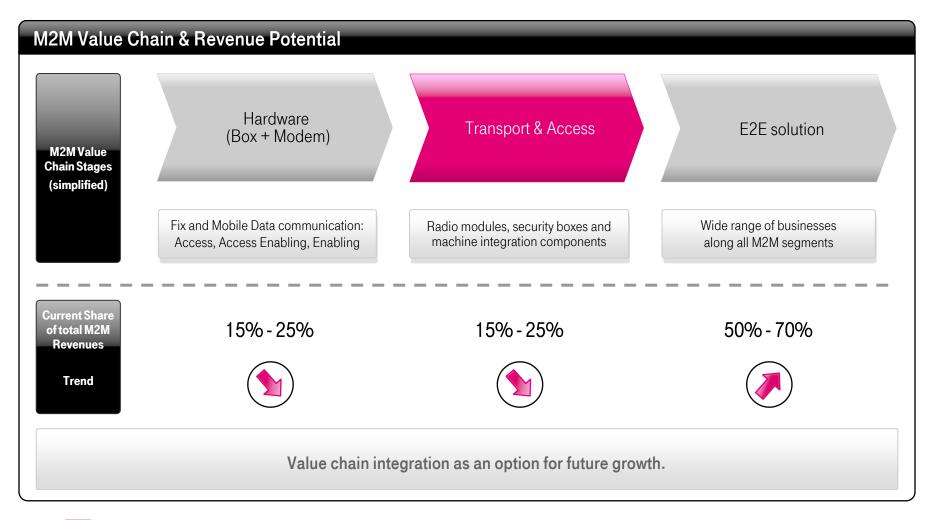


Continuation until 2015.

- Next phase 2012 2015
- Continuation of successful partnership
- CEO T-Systems and mayor lead partnership
- Focus areas
 - Energy
 - Health
 - Mobility
- Numerous ongoing and new projects



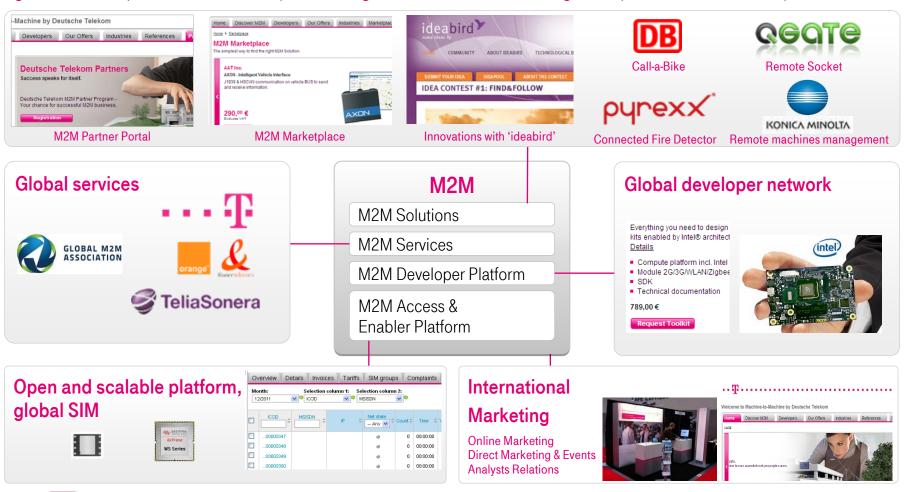
Distribution of M2M revenues along the value chain. Entire revenue potential is far more than just connectivity.





Deutsche Telekom M2M strategy deep dive.

M2M – from connecting everybody to connecting everything – global SIM, open and scalable platform, global service alliance, global partner and developer network.



Back Up.

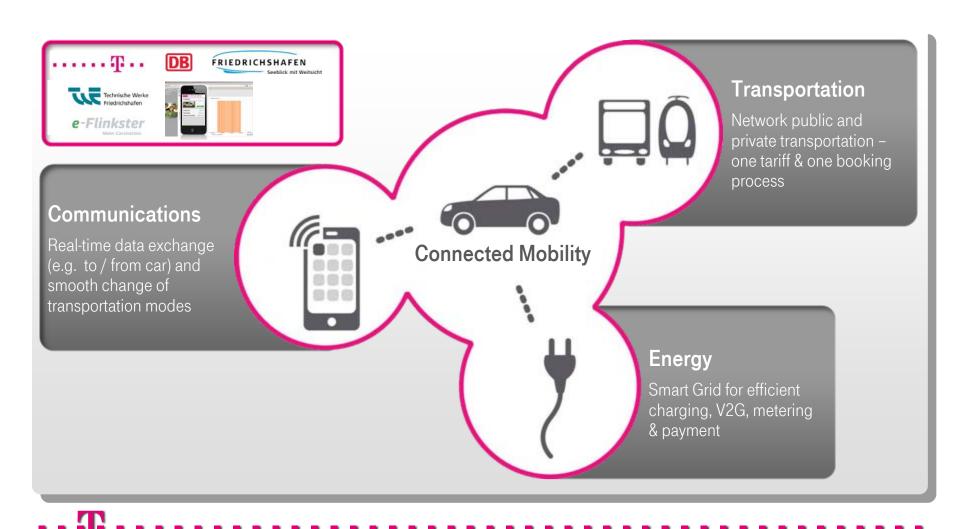


A large set of local and global partners provide the basis for open innovation and a successful partnership.



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"Connected Mobility". A showcase for "triple play" – the future of mobility.



If you can think it, it's possible... with us!

Jürgen Hase

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