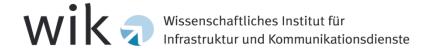
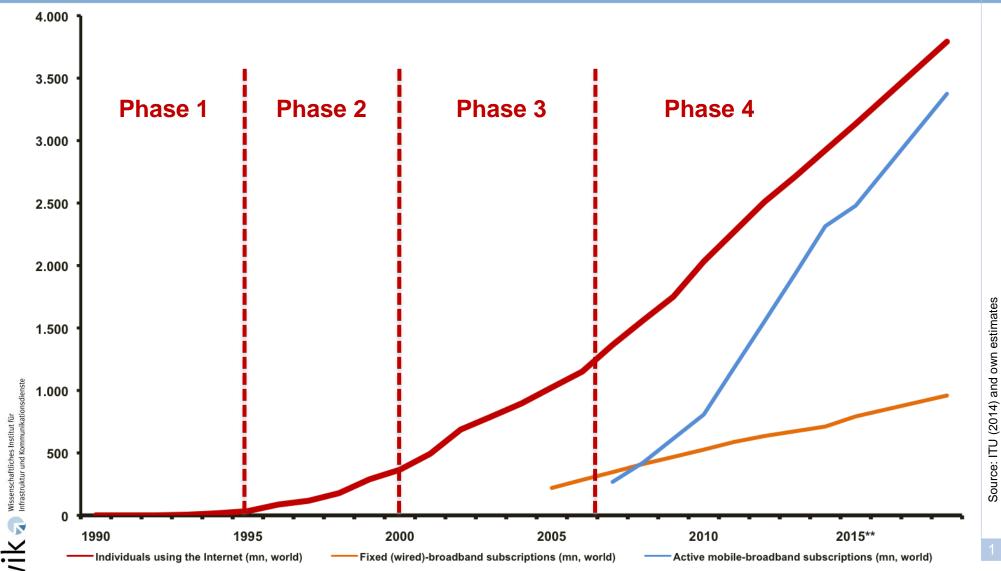
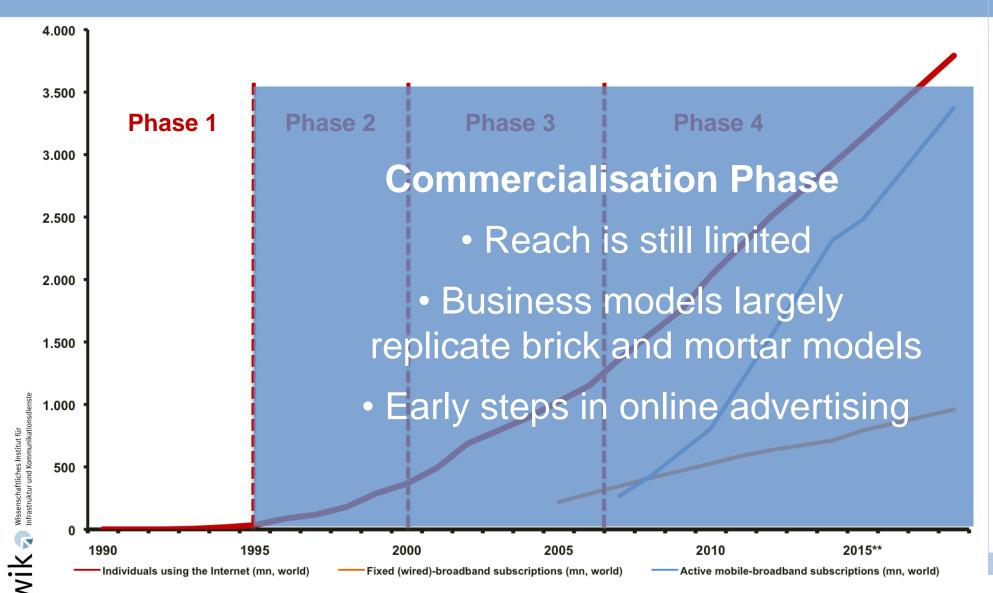
The impact of data on ICT business models

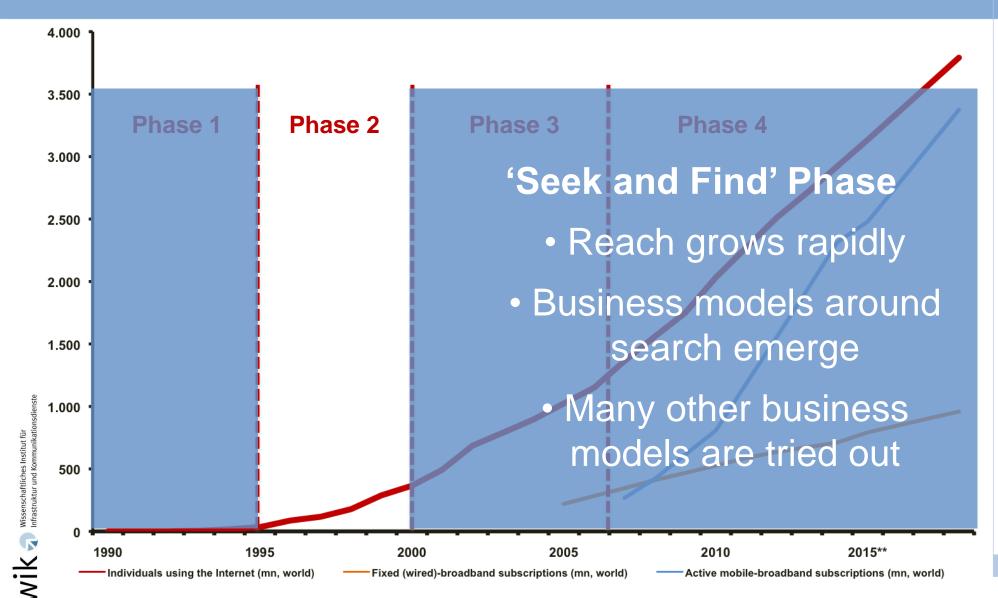
Dr. René C.G. Arnold

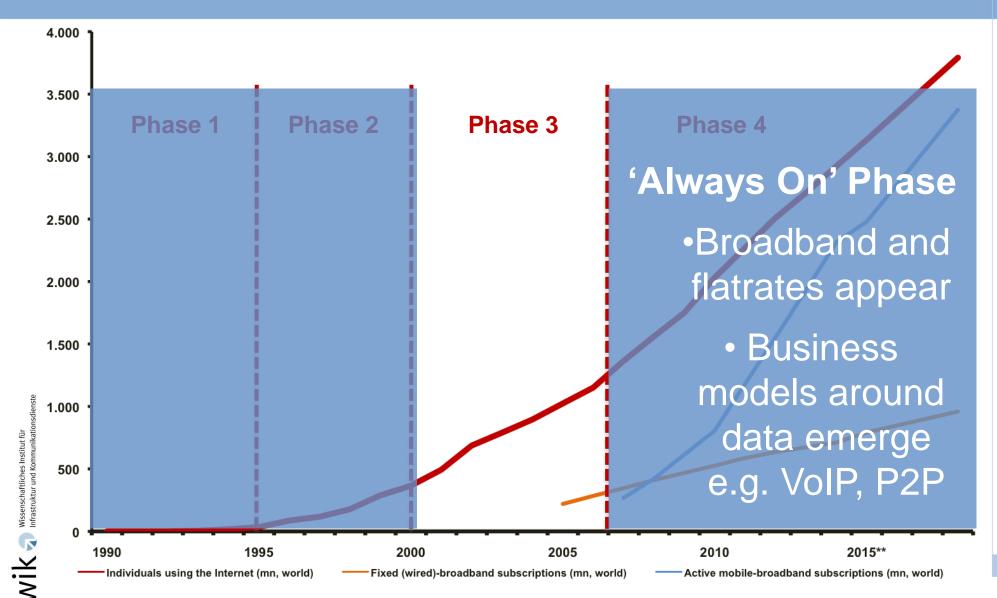
Dr. Martin Waldburger

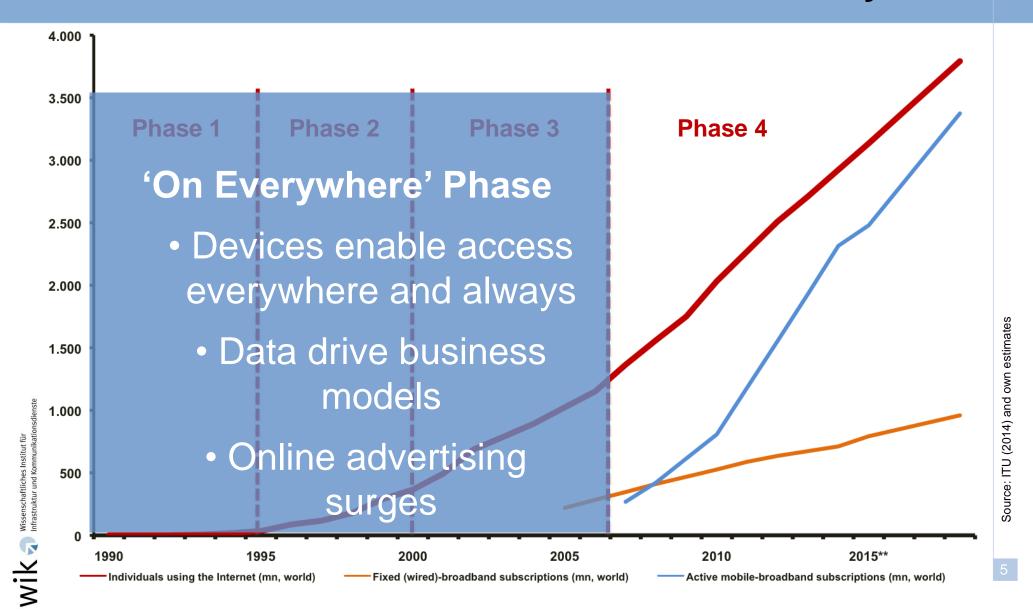










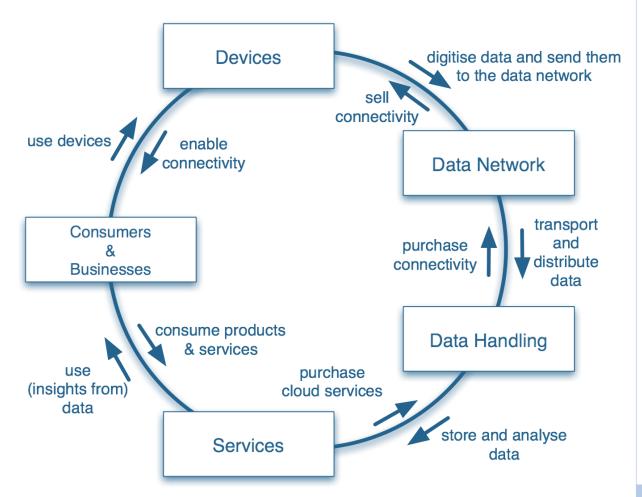


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The Data Value Circle

3 major findings:

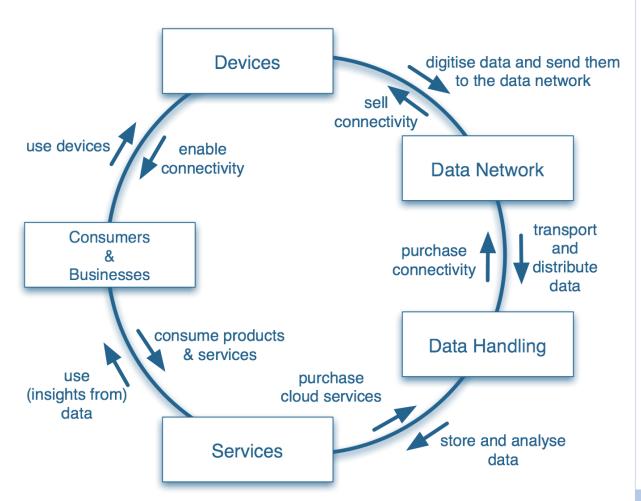
- Data have economic impact across all sectors
- Data-driven economy characterised by twosided markets
- Unclear who will gain most power in the near future



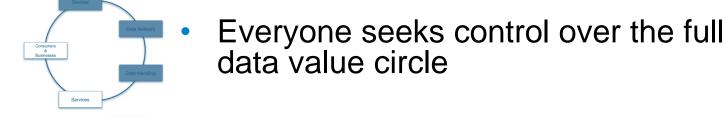
ICT business model analysis

5 value propositions:

- Mobile ecosystems
- Connectivity
- Cloud / CDNs
- Video streaming
- Targeted Online Advertising



ICT business models - major findings



 Partnerships can be a powerful alternative to entering other parts oneself

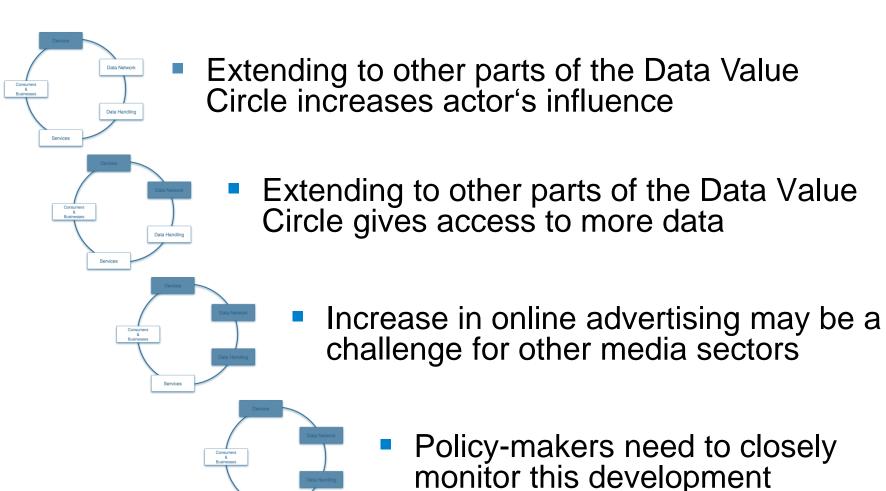


Data are the oil of the 21st century – every drop counts!



Data know no borders

Everyone seeks control over the full data value circle



Partnerships can be a powerful alternative to entering other parts oneself



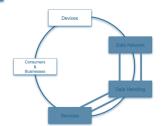
Partnerships can enable win-win situations (also for consumers)



Partnerships can enable a strong impact on competition

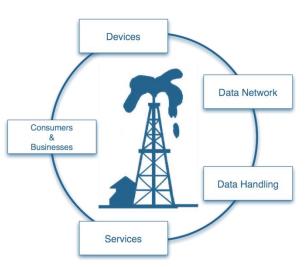


Issues of net neutrality need to be addressed



Lock-in effects may impede competition

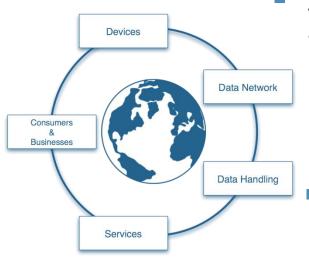
Data are the oil of the 21st century – every drop counts!



With data across all devices even anonymous data can be personalised

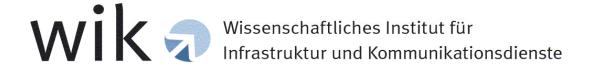
- On the other hand, a paradigm shift to data prosperity may be beneficial
- What do consumers understand about this?
- Implications of the "right to be forgotten" for the data-driven economy
- How can network operators join the oil hunt?

Data know no borders



 All the issues mentioned so far have to be addressed globally not locally

- Consumers face barriers in terms of language and dispute resolution
- General terms and conditions often conflict with national laws
- Who would be in a position to develop international guidelines, rules, etc.?
- Who would be in a position to enforce them?



WIK Wissenschaftliches Institut für Infrastruktur und Kommunikationsdienste GmbH

Dr. René Arnold

Postfach 2000

53588 Bad Honnef

Deutschland

Tel.: +49 2224-9225-25

Fax: +49 2224-9225-69

eMail: r.arnold@wik.org

www.wik.org