

- 5G development
 - (i) Massive mobile broadband,
 - (ii) billions of devices and
 - (iii) ultra-reliable and ultra-low latency networks
 - **NEW: (iv) the free access to information for all.**

60 countries

Facebook: Free Basics — mobile networks "zero rated"

- 40% turn into paid users < 1 month

- 3 month break-even

gandi.net

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systems and networks, (wire) and has published over 450 papers.

Josef Noll, University of Oslo, Norway,

Talk: Sustainable Development in the Network of the Future

The main focus will be on the need for a paradigm shift in the provision of Internet in order to connect the 4 billion people who are currently left aside.



Arto Karila, Aalto University, Finland

Talk: IP over ICN

USCAF

based on revenue
Premier League, Bollywood, ...

no Internet
X X X

mobile Internet
health, edu, gov. services

USCAF - Connectivity funds [edit]

When looking for the value proposition for operators, we see two ways:

- using the *Universal Service Communication Access Funds (USCAF)* or other Ministry of Communication funds to pilot for *in-kind* provision of bandwidth for health, education, and governmental services.
- triggering operators with the *Facebook model*, acquiring new customers through *5G network slicing for free access to information for all*.

providing free access to information based on the
USCAF — example TR

→ page report

56, ⁴

artificial intelligence

big data ¹

Computer learning

IoT communication

² Information for all



³ Panel
 Monitoring
 Management
 Network
 Security
 "data" (big)

Management tool:

supervision of access
infrastructure

development perspective

hot-spot TZ

- IoT control
power, energy
other IoT
- traffic

Today:

