

Trust in public organisations

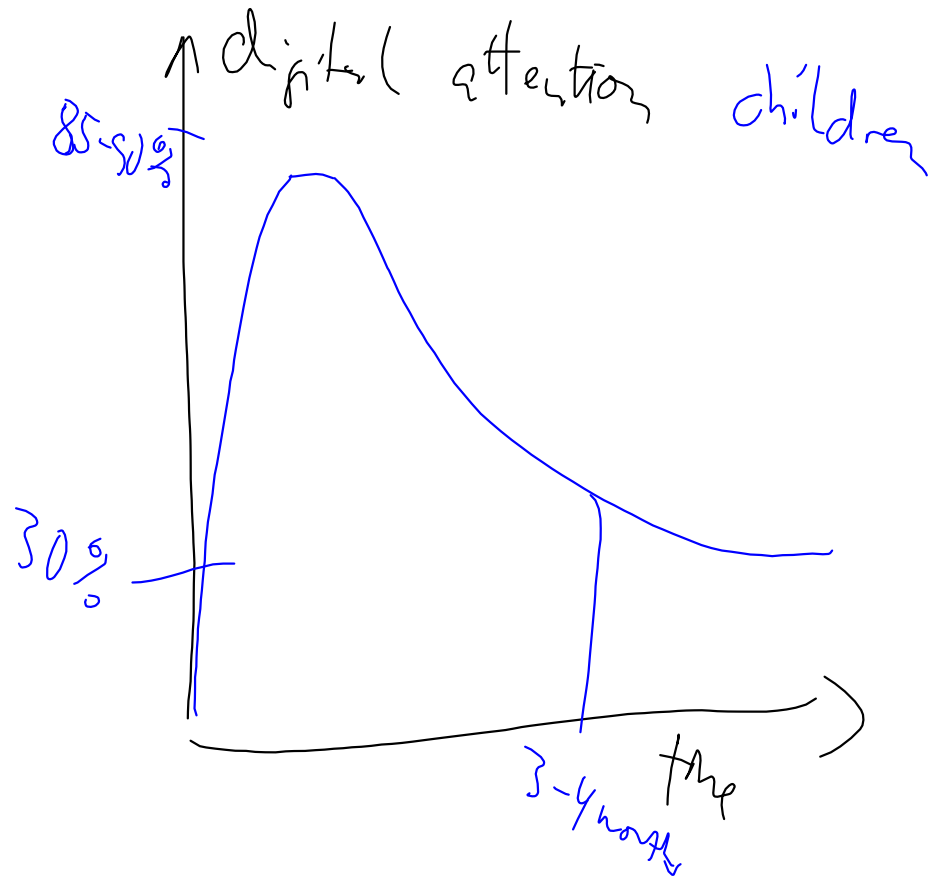
North

↳ transparency

↳ South

Uptake of Informatics (72, 2014?)

DLP (, no Internet



it is the network !

India Smart City

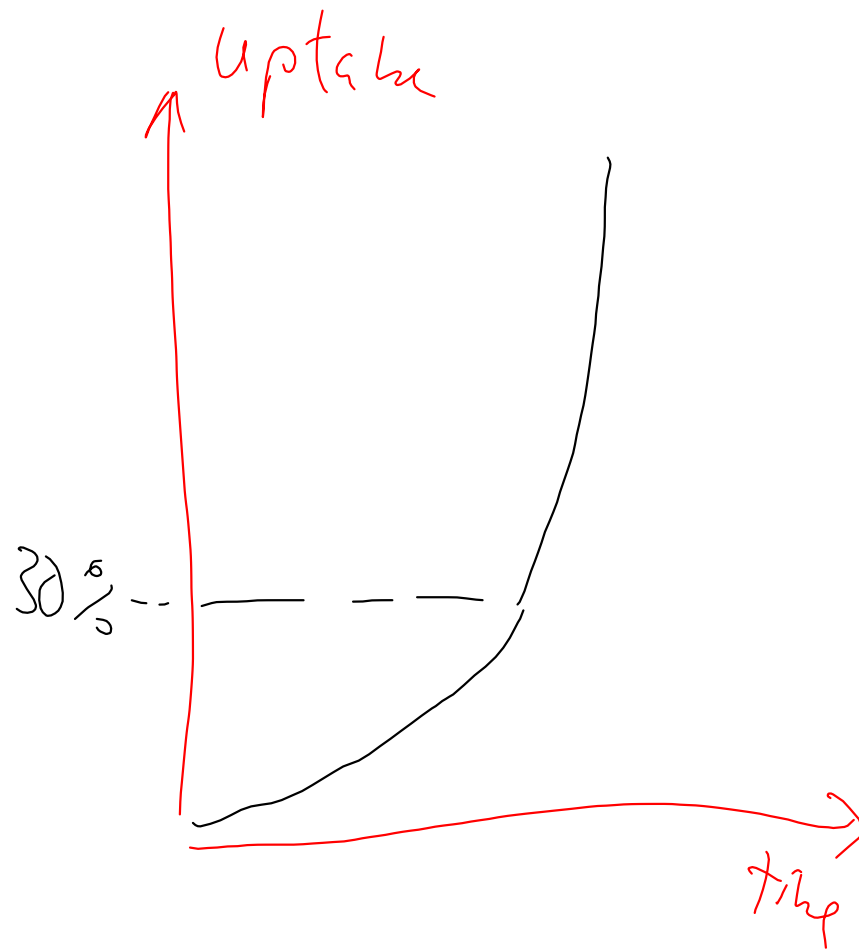
60 cities \Rightarrow 73 Mio People

\hookrightarrow transport

\hookrightarrow air quality

\hookrightarrow waste

Service adaptation



GSM 1993

SMS 1997/98

Digital "Impairment"

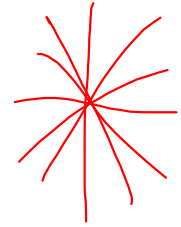
text, pictures

"games"

video

text to speech

- literacy



village
platform

http2

Novel network trends

- security monitoring
- reliable services

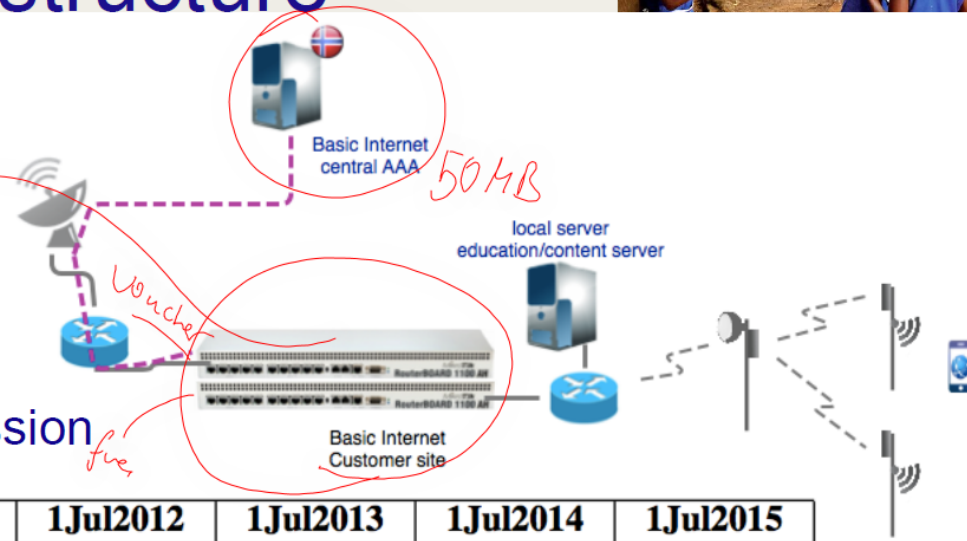
} Network
Management

F-Secure SCOTT, IoTSec.no
↳ FSense

Examples of challenges Network infrastructure

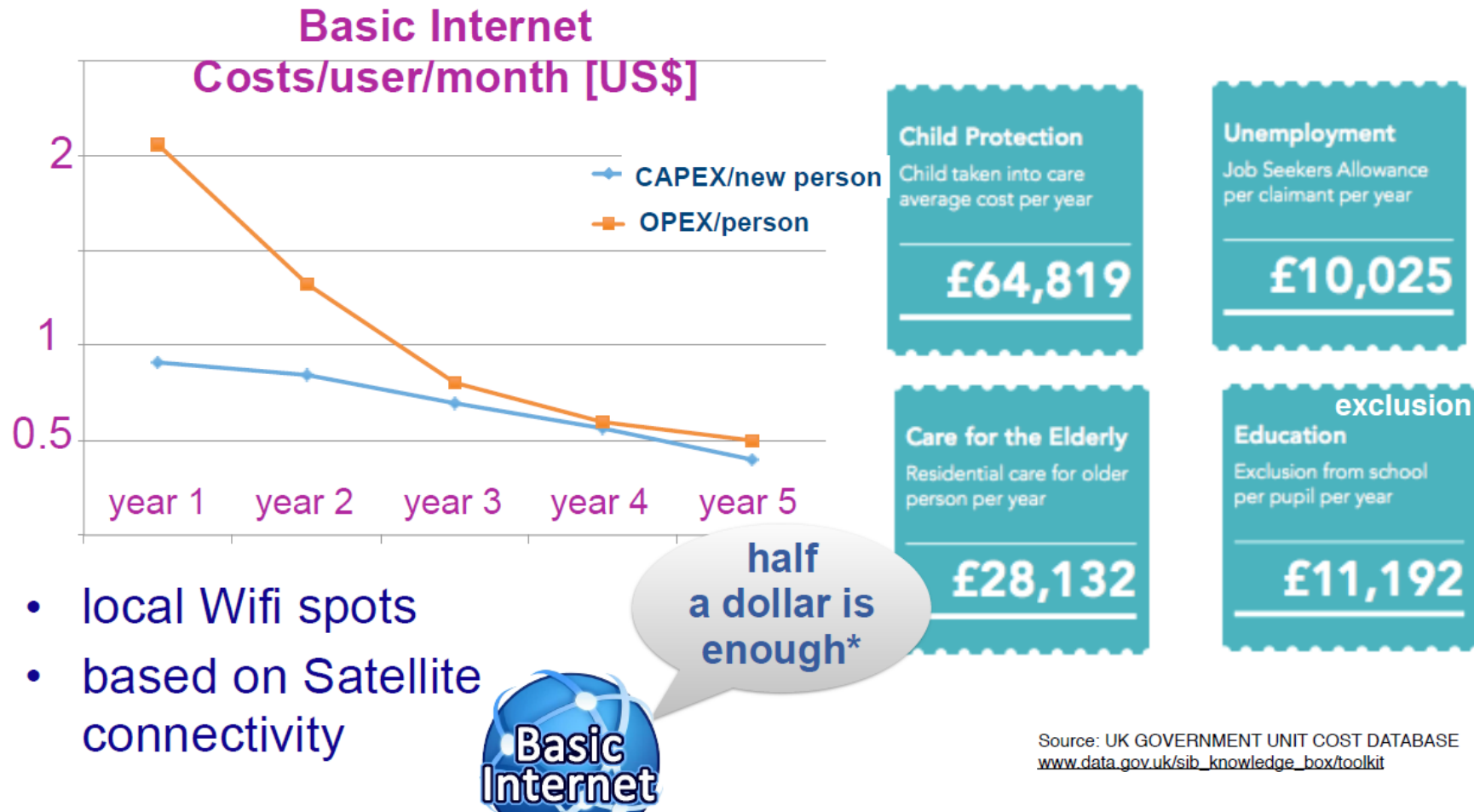


- DHCP lease time
 - IP addresses
 - 20.000 students
 - mobile network



- Intelligent compression

	1Jul2012	1Jul2013	1Jul2014	1Jul2015
av. web site [kB]	1090	1485	1829	2135
Images [kB]	684	909	1159	1348
Scripts [kB]	210	225	293	344
Video [kB]				204

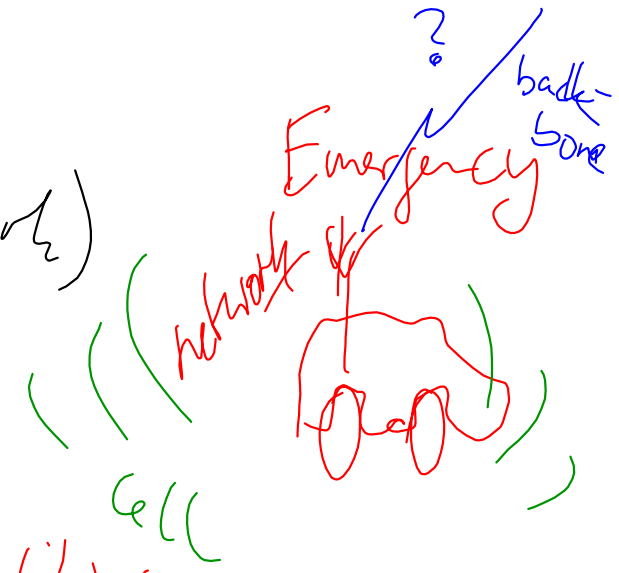


HTML5 elements → Network traffic?

Nordnet (Emergency Network)

- towers

- phones → walkie-talkie (mesh / infrastructure-less)
→ pre-authorized



Proxy Solution

Browsers

- Example: Opera Mini

Apps

- Content type filtering, based on
 - App ID
 - IP address range
 - Ports
- packet inspection (*https challenge*)

→ pattern?

Q: *do we need browser standard, or can we perform all through pi*

TOR network: 3rd layer characteristics (2000)
ports, parameters

Unencrypted

✓ TCP content header

WhatsApp

- chat

- pictures

encrypted

- voice - mess
- comm

- video

⚡ Stopped service

1. Authentication / Integration

a) Bluetooth / NFC App/key distribution

b) "common pre-authentication"

c) Pseudo Mobile standard

White list

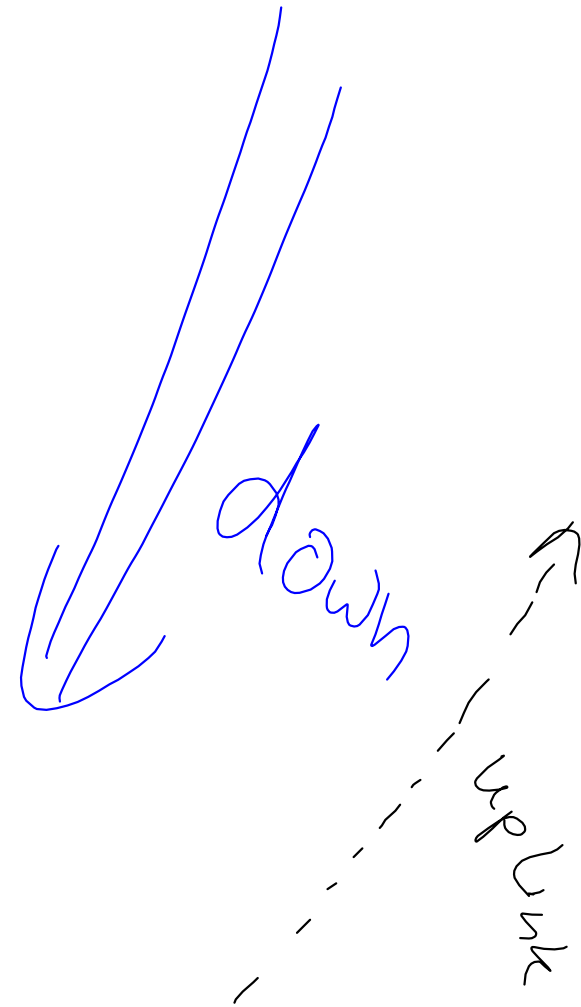
Using TV white space

Internet in a box

sat-based "Onnet"?

Example 4G:

"QAM 256 down
"small" uplink



Value Proposition

For countries

- free access to health information & education

For operators ←

- only 2-3% are used for InfoInternet, >97% for commercial services
- in-kind provision of bandwidth, Universal Service Communication Access Funds (USCAF)

• new customers (create the need)

• establish basic needs

Add-based → communication
- Spotify free (biz model)

sell user-data