



Nextelco Foundation

From Access to Education, Health and Innovation

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Internet is a basic human right

- Is Internet access and online freedom of expression a basic human right?
- **All people should be allowed to connect to and express themselves freely on the Internet.**
- The United Nations' Human Rights Council unanimously backed that notion in a resolution on 5 July 2012. All 47 members of the Human Rights Council including China and Cuba signed the resolution.





Reality

Today, the Internet isn't accessible for two thirds of the world. Imagine a world where it connects us all. [Source: Internet.org]

- Limited Internet access in the World
 - Network missing
 - Too expensive
 - Revenue driven



Imagine a world ...

"Envision the world where everyone can open his browser and get free access to Internet"



- access to
 - Wikipedia, Facebook, Google, News
 - for free
 - from a phone, a tablet
 - through the browser



Internet.org

- Driven by the global industry
- Targeting
 - Affordability
 - Efficiency
 - Business Models

No one should have to choose between access to the Internet and food or medicine.

ERICSSON

Ericsson is a world-leading provider of communications technology and services.

MEDIA/TEK

MediaTek Inc. is a leading fabless semiconductor company for wireless communications and digital multimedia solutions.



Opera products enable more than 350 million Internet consumers to discover and connect with the content and services that matter most to them.

SAMSUNG

Samsung is a global leader in technology, opening new possibilities for people everywhere through relentless innovation and discovery.

facebook

Facebook's mission is to give people the power to share and make the world more open and connected.

NOKIA

Nokia is a global leader in mobile communications whose products have become an integral part of the lives of people around the world.

QUALCOMM

Qualcomm is a world leader in 3G, 4G and next-generation wireless technologies.





Our Mission

- Provide Internet access to everyone
- Free access
 - web pages
 - bandwidth limited

Free access to the Web
Nextelco's mission



Internet services through vouchers



Novel Business Concept

- Affordability
 - “The user owns the access network”
 - Backbone provided by Nextelco
- Voucher sales

The user owns the network
Business model





User Experience



- Affordability
 - Web information is freely available
 - Web, Facebook, News
 - no subscriptions
 - no hassle with username/ password

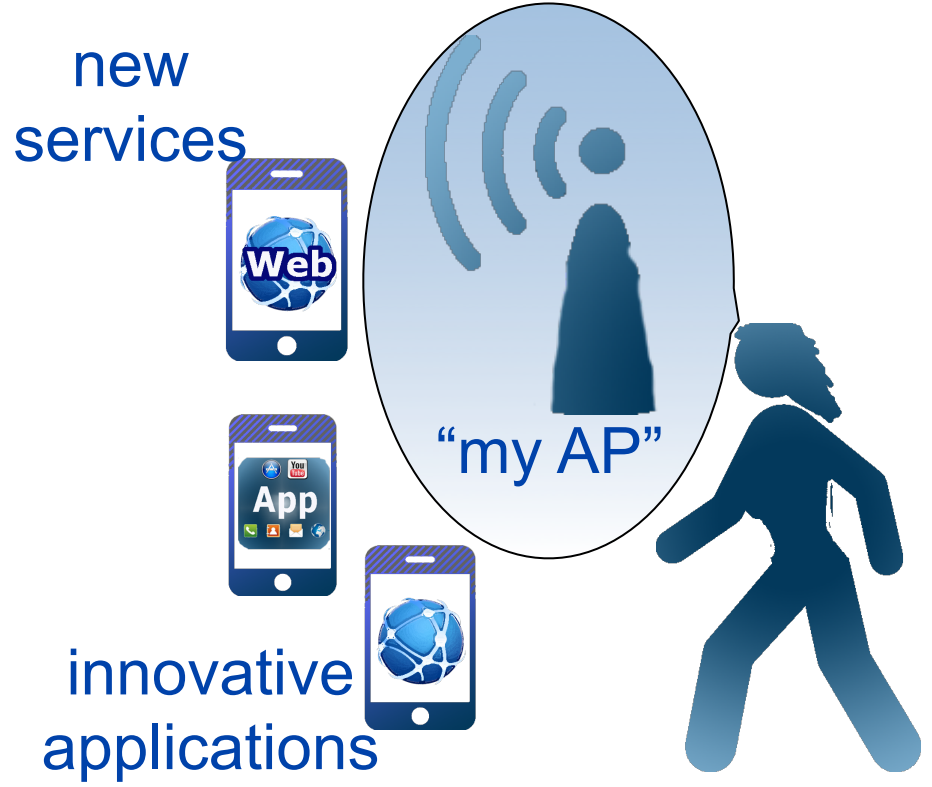
- Voucher sales
 - Video, TV, Music, Download
 - “I pay for what I need”:
 - 1 hour, 1 week
 - 20 MB, 100 MB





User Opportunities

- Infrastructure
 - Business opportunity
 - “self-financed networks”
 - community networks
- Partnership
 - Nations
 - Schools
 - Universities
 - Clubs
 - People



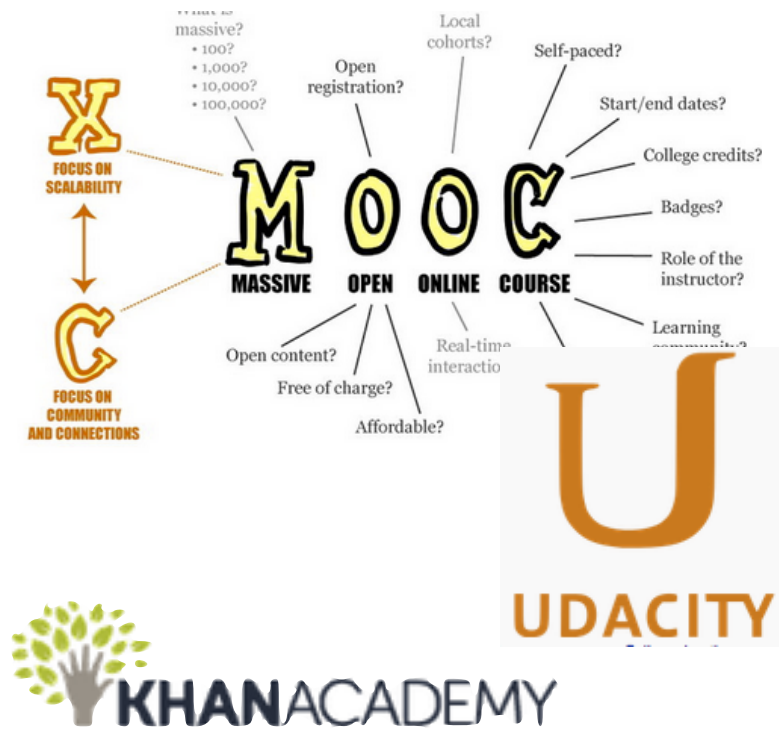


Trends

- Cheap phones & tablets

&

- Free education
 - Khan academy
 - Self-learning Apps
 - iTunesU
 - Cisco academy
- Massive Open Online Courses (MOOC)





Status - Technology

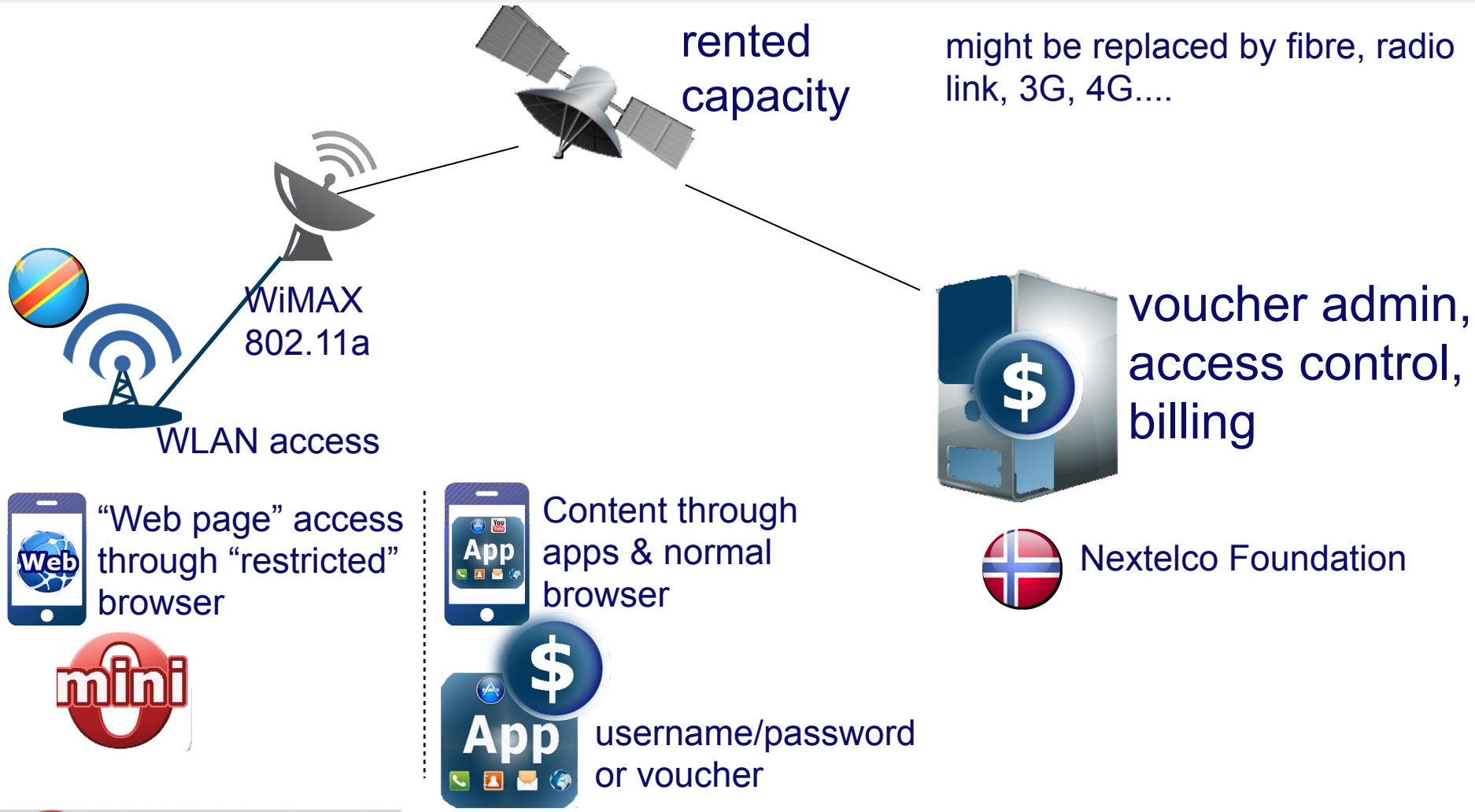
- 3 products
 - Satellite link
 - public Wifi access point
 - Sat.-based public Wifi access point

- Success technology usage
 - University of Lisala
 - Deployment at 4 other universities in Kinshasa (DRC)
 - 10 additional implementations





Technical Infrastructure and Vision





Business Ecosystem

 **Edu**
  **Health**
 

 **News**
 
 

Partner

 **Access point** 
  **Access point** 
  **Access point** 

Partner

 **Backbone**
 Proxy
  **Billing** 

 **Satellite**
  **3G/4G**
 

Nextelco Foundation / Nextelco AS



Business aspects

- Complementary operations to Mobile Operators
- Mobile Operators
 - start from city centre
 - Quality of service
 - voice & data
 - revenue driven
 - (use Nextelco link for Telco services)
- “The user owns the network”
 - Nextelco runs backbone and distribution
 - User runs access
- Nextelco
 - start from rural areas
 - web information only
 - user driven
 - (use mobile backbone)



Status - Partnership

Collaborations

- PSI - International help organisation (health)
- AUF - L'Agence universitaire de la Francophonie (education)
- CWI Norway/CTIF Denmark

Envisaged partnerships

- Utdanningshjelpen
- Redd barna
- Røde kors
- Plan Norge
- Care
- Caritas





Conclusions

- Scandinavia has a long tradition for Internet-based developments
- Bringing Internet to the developing world
 - will foster education, health and innovation
 - will be the basis for development and welfare
- Proven technical solution
 - access points to the two thirds who don't have Internet
- Ready to roll-out
 - in Nigeria, Ghana, Kongo,
 - need initial infrastructure

CONNECT



Join us

for a world:
"Where everyone can
open his browser and get
free access to Internet"



with

- support: contacts, brain, help, €, \$, ¢
- partnership: pilots, technology
- services: education, health



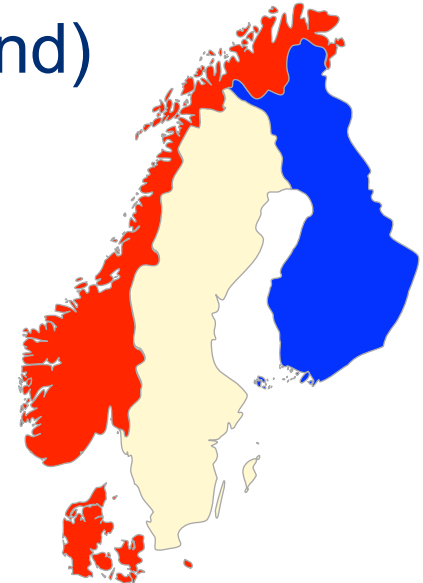


Additional slides



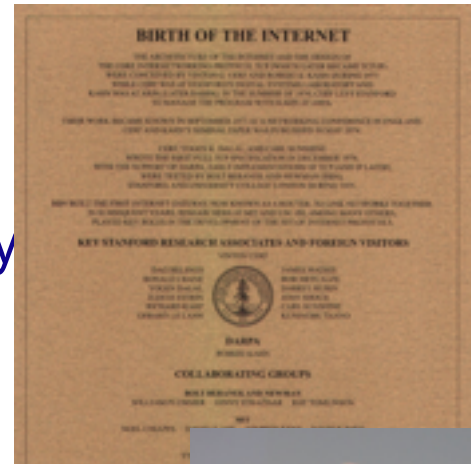
Scandinavia and the Internet

- The Internet - and Scandinavia (incl. Finland)
 - historical
 - today
- Internet impact for developing economies
 - health, education
 - our advantage

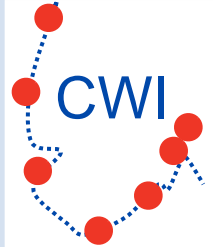


The Internet and Scandinavia

- The first connection of Arpanet outside of the USA (and Hawaii) was to **Scandinavia** (Kjeller, June 1973)
- List_of_Internet_pioneers [Wikipedia]
 - Yngvar Lundh, Paal Spilling
- Application development
 - .php, OpenSource, Linux, Skype, Spotify
 - OperaSoftware, FAST Search
 - Nokia, Ericsson
 - Telenor, TeliaSonera
- Mobile Internet:
 - GSM
 - Service adaptation



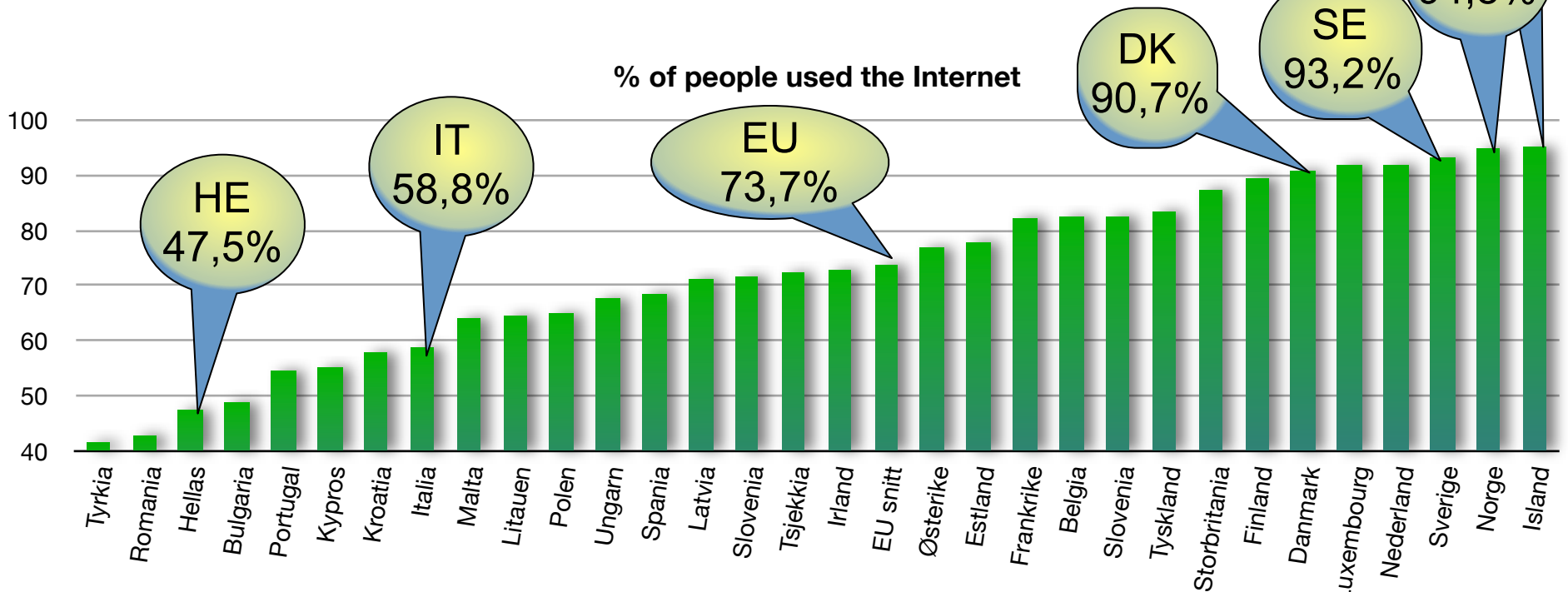
The Center for Wireless Innovation Norway - CWII.no - Enabling Collaborative Research



Internet creates welfare

[Robert Madelin, Directorate-General for Information Society and Media, EU commission, Aug 2011]

- * "use of IT in a proper way can increase effectiveness with 30-40%"
 - * "we are good in technology development. But access to venture capital is bad in Europe as compared to the USA".
- [Aftenposten, 3. October 2011] gunhild@aftenposten.no



The Center for Wireless Innovation Norway - CWIN.no - Enabling Collaborative Research