A "converged world" is where technology brings connectivity

Nogues Thomas

Director, Standards Coordination, NDS Ltd

VIDEOGUARD®
Conditional Access

MEDIAHIGHWAY
Middleware

Xtv
Personal TV

Value@TV
Interactive

Synamedia
Broadband

mVIDEOGUARD
Mobile

NDS

NDS is the leading provider of conditional access to digital pay-TV operators worldwide

NDS is also a leader in the provision of end-to-end open software solutions including Middleware, Interactive TV applications as well as Digital Video Recording technology

NDS secures US$32 billion pay TV revenues, with:

72.9 million active smart cards

54.6 million cumulative middleware

6.4 million cumulative DVRs

2.7 million cumulative residential gateway (RG) units;

Over 50 TV platforms

In more than 35 countries and 15 languages

3,460 employees globally over 2,930 are technical

Conditional Access Customers

NDS Middleware Customers

CANALDIGITAL
Get
Beijing Gehua Cable TV
ComCor TV
CCTV
China Cable Network
CYFRA+
CANALDIGITAAL
NC Numericable
BeTV
Romtelecom
DIRECTV
CANALSAT
SerbiaBroadband
SkyLife
Sky Mexico
Yes
Sichuan Cable Network
Chongqing Cable TV
Guizhou Cable TV
STAR
Digital +
PREMIERE
CNS
TVB Pay Vision Ltd
DTH Television Group
Orbit
Media Overseas
Hathway
Tata Sky
Astro MBNS
Sky Brasil
Indovision
DIRECTV LA
Media Overseas
Media Overseas
MultiTV Afrique

● Middleware Customers

MEDIAHIGHWAY

NDS

Mankind overall knowledge increase...

multiplication of experts
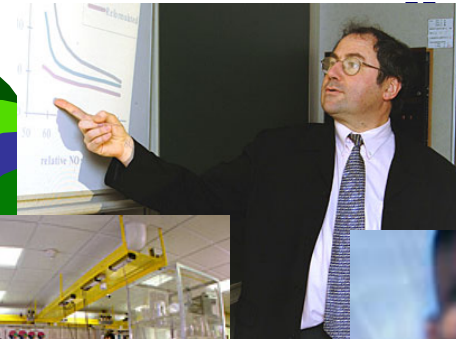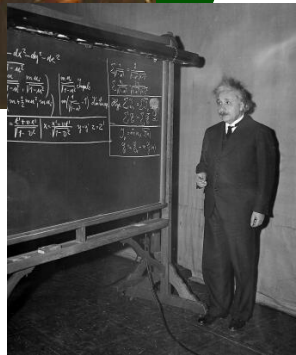and fields of expertise

... but we may have reached some human limits

highly specialised

the fount of all knowledge

becoming specialised

knowledge through TECHNOLOGY

Long time ago   *Not so long ago*   *TODAY*   *Future*

Things need connectivity before they can become "smart"

CONNECTIVITY

Experience

Intelligence

Processing

Senses

Wisdom

Knowledge

Information

Data

6° 11' 21.26 E
48° 41' 38.02 N
262,4 m

10011011011000
11001110110011

Technology challenge for connectivity: the digital TV view
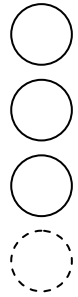
NDS
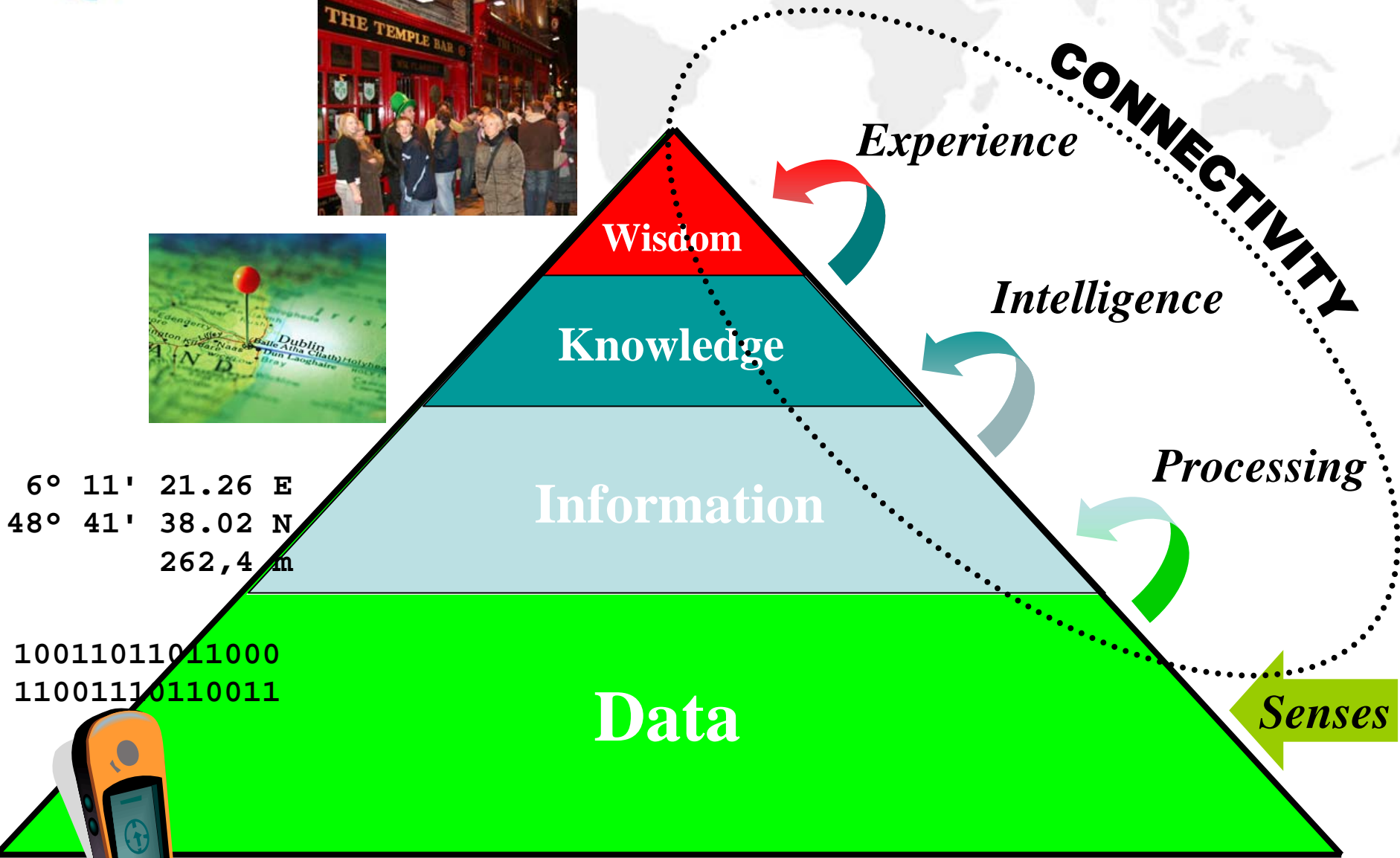
Distributed System

Distributed Home Network

BROADCAST

BROADBAND

(xDSL,FTTH, 3G, WIFI, WIMAX, NGN / IMS…)

He
E

STB
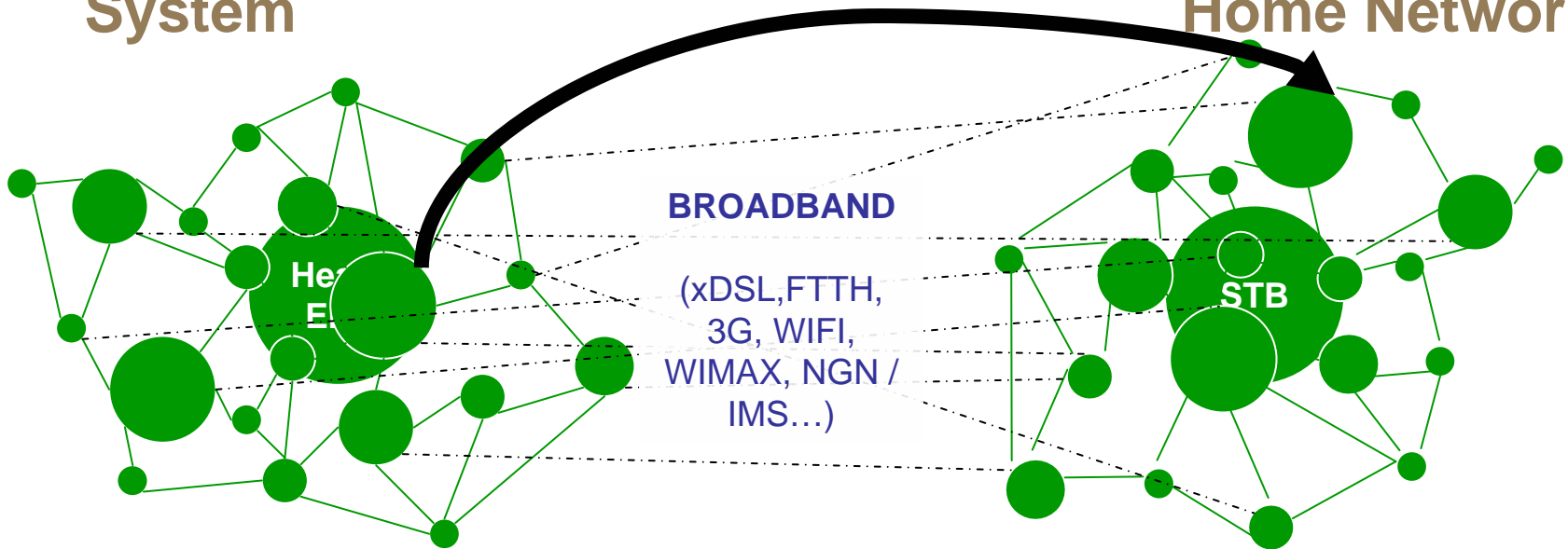
Technology challenge for connectivity: the digital TV view
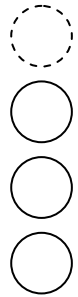
Various content and metadata Sources & formats

Search platform

Broadcast
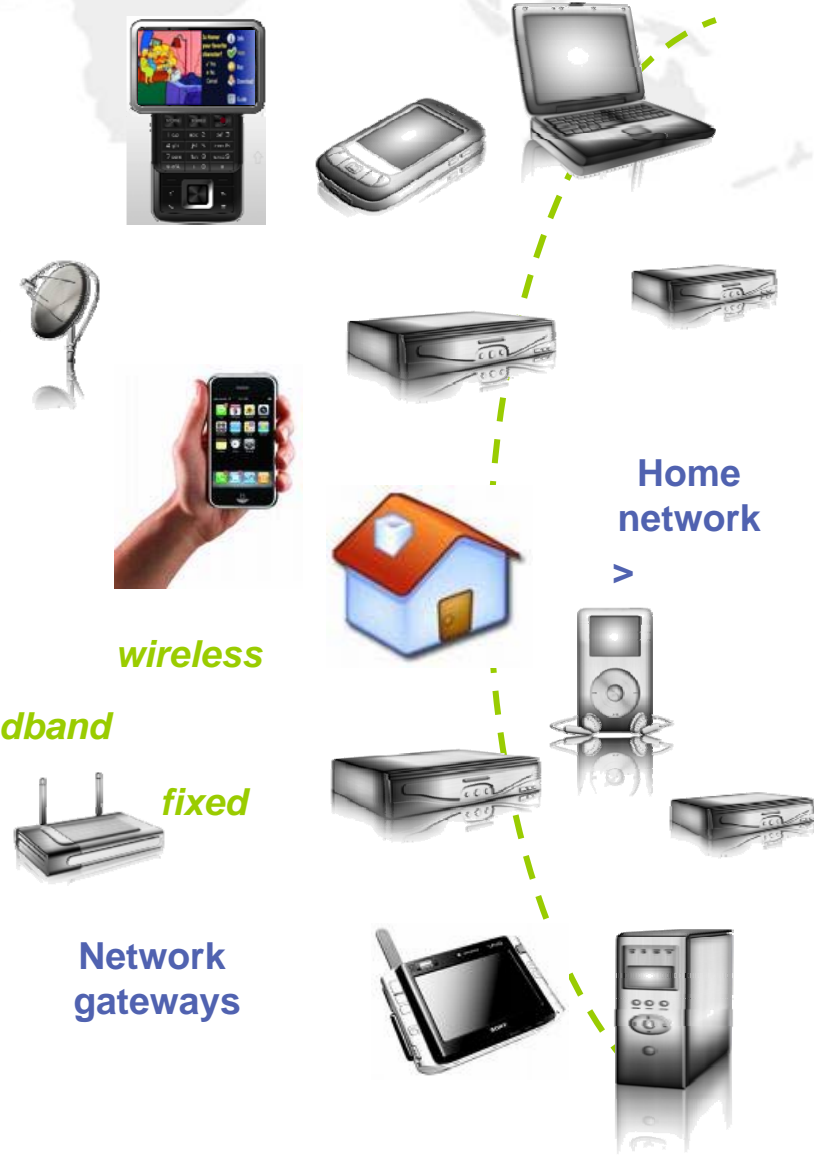
Multi device portal

wireless

Broadband

fixed

Monetizing platform

Network gateways

Home network

>

Various service providers

- Not anymore "at what time?"
- Nowadays convergence is bringing new questions:
  - On which display device? TV? Which one? PMP? Mobile? PC?
  - Where? At home? On the train? In the plane? In the hotel?
  - From where? Satellite? Terrestrial? Cable? IPTV? Which channel? VOD? Internet download? DVD? HD DVD? Buy it? Rent it?
- Efficient localisation and convenient access of content is becoming paramount
- *DRM technologies, intended to secure content and associated business models, should facilitate all this convergence if they want to succeed*

NDS

Technology will be the main response to the current challenge for mankind related to the multiplication of data, information and knowledge

THANK YOU

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