iBurst Commercial Service in Lebanon

Operator: Cedarcom Broadband

Service started in December 2006.

URL: http://www.mobi.tm



Cedarcom started "mobi" iBurst Commercial Service in Beirut, the capital city of Lebanon and Tripoli.











New Operators of iBurst Commercial Service





Operator: Yamatech Group Inc.

Service started in October 2006.

URL : http://redballinternet.ca/









Operator: iBand

Service started in September 2006.

URL: http://www.iband.no







New Operators of iBurst Commercial Service

♦ U.S.A.

Operator : Redwood Wireless Service started in May 2007.

URL: http://redwoodwireless.com/







♦ Malaysia

Operator: MoBif Broadband

Service starts in July 2007.

URL: http://iburst.com.my







Other Commercial Networks to be deployed

♦Tanzania Africa on Line

Commercial Service started in July 2007

◆ <u>Cyprus</u> Trial started in June 2007

Commercial Service to start in 4Q 2007

◆ Oman Trial started in June 2007

♦ Netherlands
Trial to start in 4Q 2007

◆ Saudi Arabia Commercial Service to start in 4Q 2007

◆ India Commercial Service to start in 4Q 2007

◆ Other Countries: Slovenia, Croatia, Indonesia, Vietnam,

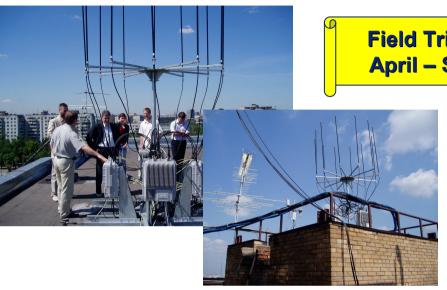
Ireland, Northern Ireland, More operators in the U.S.,

Many Operators are expanding their operation to other countries.





What's happening in Russia?



Field Trial in Moscow **April – September '06**





O xone axmomentae percessas ("KPU or 19.12.2005 № 05-11-05-078

предприктим «Научно-песанодовательский институт радно» (ФГУП НИИР)
об использовании папосы радиочастот 1785-1805 МГц радиозистот редиочастот 1785-1805 МГц радиозистот предприктим (РЭС) беспроведного доступа, Государственняя компосия по

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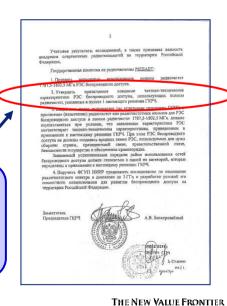
1783—180 МЦП — указаня списатился депользования положи — репроботиль указаня списатился депользования положи — репроботилься в предоставляющей депользования положи — реговарительного в поевиюто выпачения; — уколожия защетилься неточные защетилься неточные депользования депользования защетилься неточные указания по депользования защетилься неточные указания депользования защетилься депользования депол

State Frequency Management Commission (SFMC) **RESOLUTION**

October 23, 2006

State Radio Frequency Commission RESOLVES:

To recognize as feasible the use of the band 1787.5-1802.5 MHz by wireless access equipment.





What's happening in Russia?



GOST-R for Base Station & User Terminal

May 23, 2006

Health Certificate for Base Station & User Terminal

June 15, 2007





Certificate of Conformance by ANO "OSSET"

'for public communication network as radio access equipment for wireless data transfer....within the Range 1787.5 – 1802.5MHz'

September 14, 2007

PRIME-TASS October 13, 2007



Russia certifies Kyocera's iBurst wireless broadband system

Japan's Kyocera has received certification from Russian authorities for the use of its wireless broadband system iBurst, the company said in a press release obtained by Prime-Tass Friday. The system is standardized as HC-SDMA, or High Capacity Spatial Division Multiple Access. It requires a frequency band of 5 megahertz for the total throughput of 32 megabits per second, the company said.

Service implementation is under discussion with multiple operators





♦ Promotion of iBurst by iBurst Forum

iBurst Forum: A Forum by iBurst operators and vendors intending worldwide business development of iBurst system.

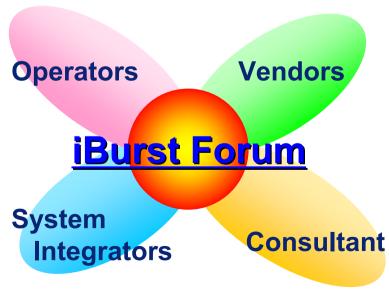
Past Event: April 2004 Sydney, Australia

December 2004 Singapore

June 2005 Yokohama, Japan

March 2006 Johannesburg, South Africa

April 2007 Kuala Lumpur, Malaysia









iBurst Forum in Malaysia

♦ Formation of iBurst Association

iBurst Association is to be formed. Preparation committee has been organized. Members are Operators, Vendors, Distributors, and any other iBurst related organizations.



♦ iBurst Roaming MOU was signed

9 iBurst operators signed MOU for International Roaming.



Cedarcom and Members of iBurst Worldwide Operators signed MoU for the launch of International Subscriber Roaming Access.

CEDARCOM-MOBI 4/26/20 07 12:37:17 PM

Cedarcom and Members of iBurst Worldwide Operators signed MoU for the launch of International Subscriber Roaming Access.

Kuala Lumpur / Malaysia – Beirut / Lebanon 26th April 2007: After the successful launch of Mobi Cedarcom's wireless broadband service in Lebanon December 2006; Cedarcom's Chairman and CEO Imad Tarabay and members of iBurst worldwide have signed MoU to cooperate in providing in providing international subscriber roaming access between operating countries at the 5th iBurst International Forum on 12 April 2007, Westin Hotel, Kuala Lumpur, Malaysia.

Mr. Kevin Leong, Group CEO of MoBif Berhad said "the purpose of this MoU is to establish an International Subscriber







iBurst Application example



Initial High-Velocity Tests of iBurst Aboard TGV Trains: An Overview

Presentation at iBurst Forum Johannesburg, March 2006

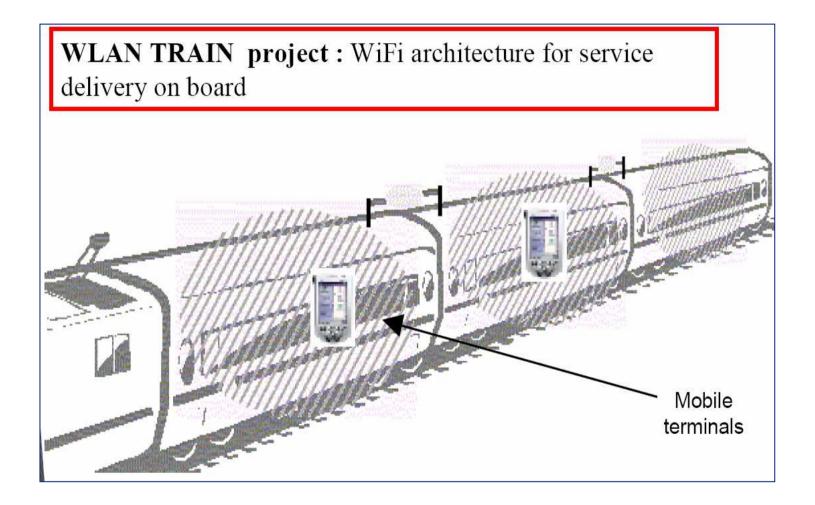








High Speed Access on TGV: What For?

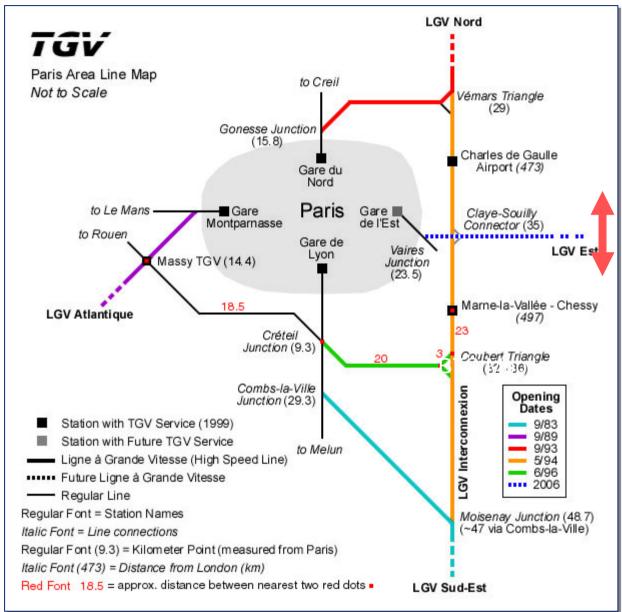








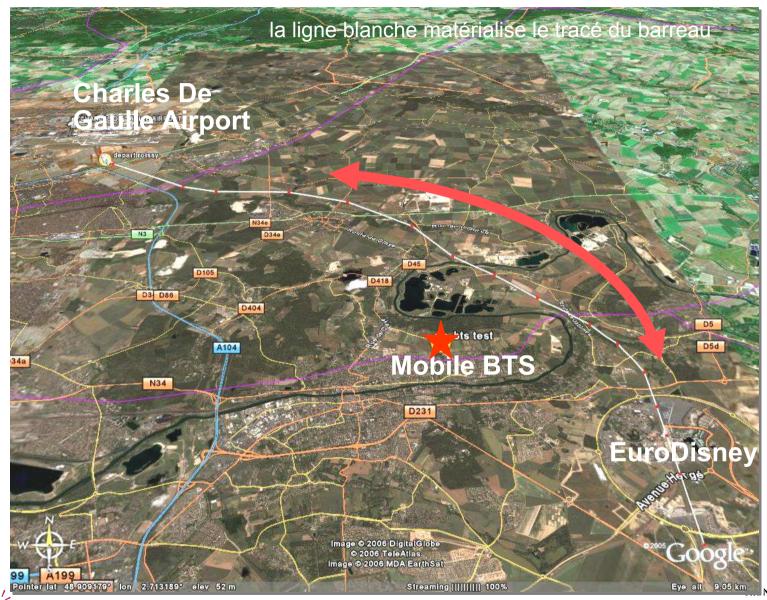
Tests Location and Time Constraints



- 15 Km tracks span in cell
- TGV cruising at 270 Km/h
- Data traffic duration <3 minutes!
- Tests done over 8 days in December and January
- More than
 6,000 km
 traveled HE NEW VALUE FRONTIER



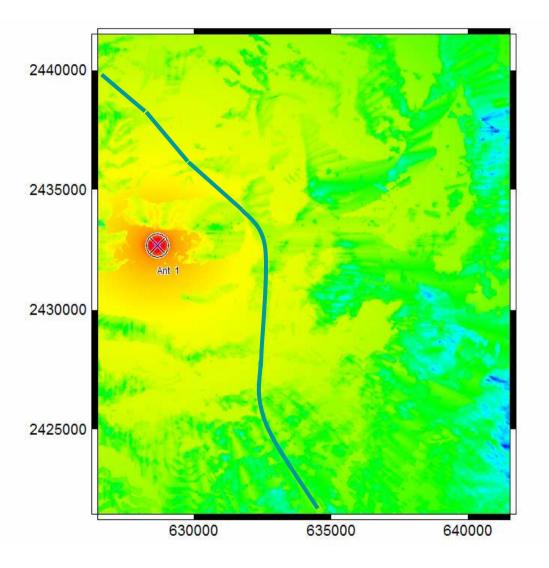
The Test Environment: High-Speed Link East of Paris

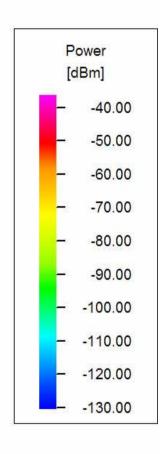






Radio Propagation Analysis



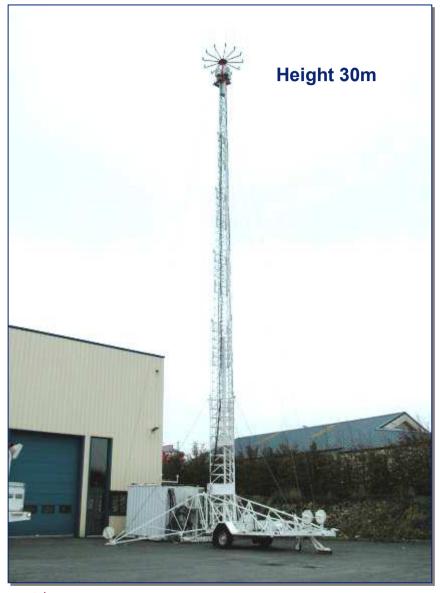


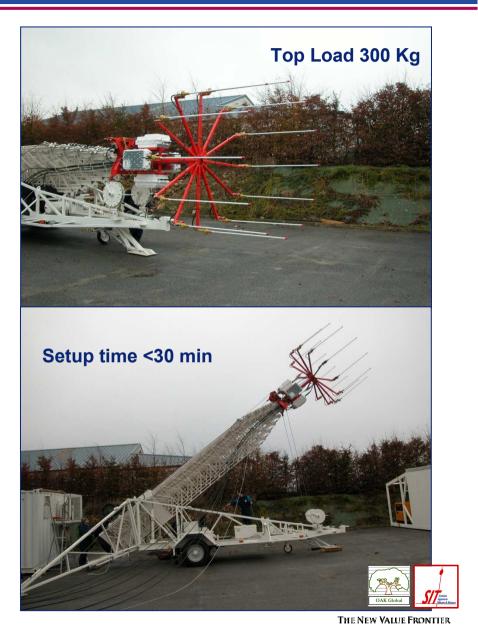






The Mobile BTS Setup









A Very Tough Environment



Many Track Segments in Trenches

3G Antenna









An Alternative Terminal Setup

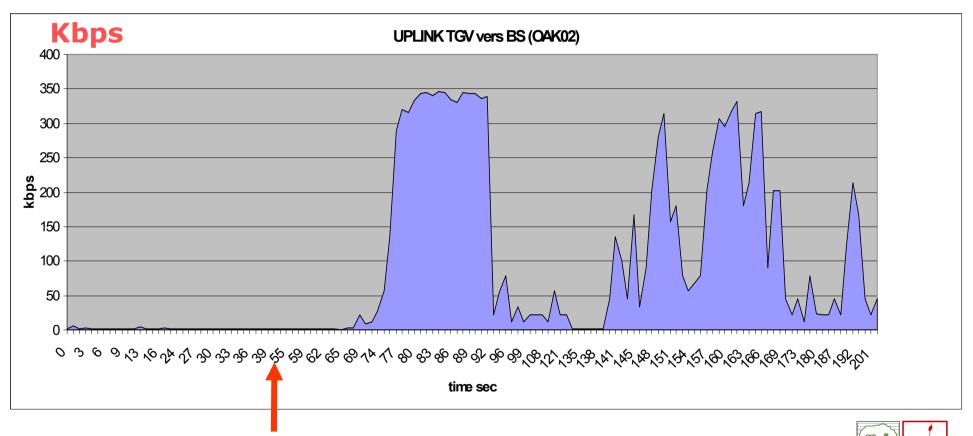








Uplink Traffic Throughput



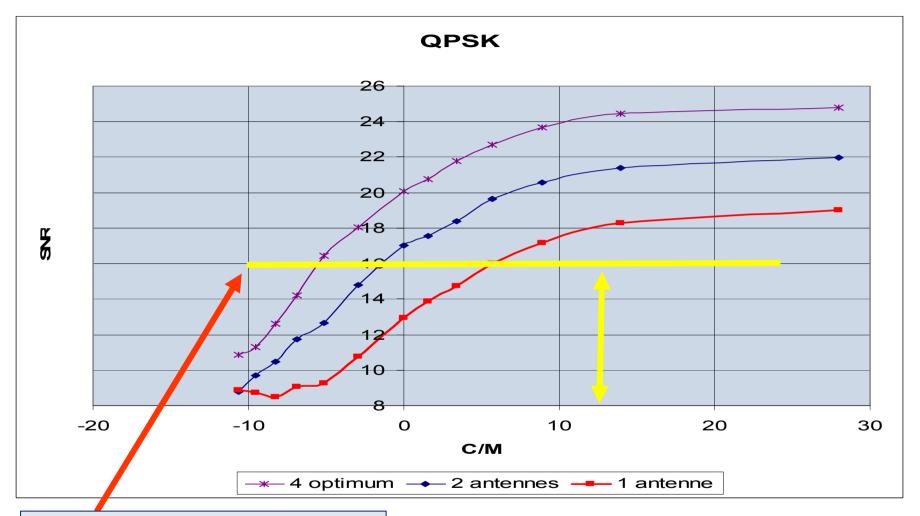








DL performance (Link Budget & C/M) vs. multi-antenna UT₃₈



SNR threshold required for maximum DL throughput EIRP is the same in each case







Thank you









