



北京邮电大学
BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

Welcome to Beijing University of Posts and Telecommunications (BUPT)

Prof. Xiaofeng Tao

Vice director of Wireless Technology Innovations (WTI) Institute
Vice director of Universal wireless communication networks, MoE





“Whampoa Military Academy” of telecommunications

- Located in capital of China
- Founded in 1955
- Covers an area of 693 acres
- A key national university of telecommunications



BUPT



北京邮电大学
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- One of the first key universities of “211 project”
- Including 13 education departments and 3 Research Institutes
- 1 Key Lab. of State, 2 Key Lab. of Ministry of Education (MOE)



- 35 Doctoral majors and 42 master majors
- 11 Academicians and more than 600 teachers
- Around 21000 full-time students





Key Lab. of MOE

Research team

- 4 main Research centers
- 2 Academicians of CAE
- 19 professors
- 15 associate professors

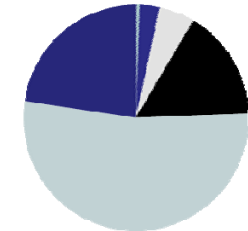


WTI: Construction

- Founded in July, 1998, is under Key Lab. of Universal Wireless Communications
- Focusing on key wireless communication technologies and systems



Staff



- Prof.
- Asso. Prof.
- Lecturers
- Ph.D Candidates
- M.S. Candidates
- Others

- Consisting of 9 labs, e.g. RTT, RRM, S&T, etc.
- 6 Prof., 9 Asso. Prof.
- Around 50 Ph. D., more than 200 master students

WTI : Culture



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Extra-curricular activities



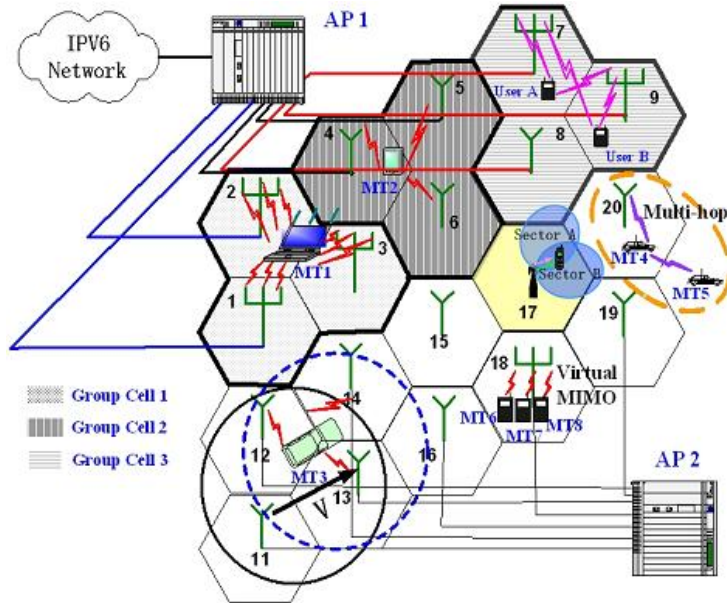
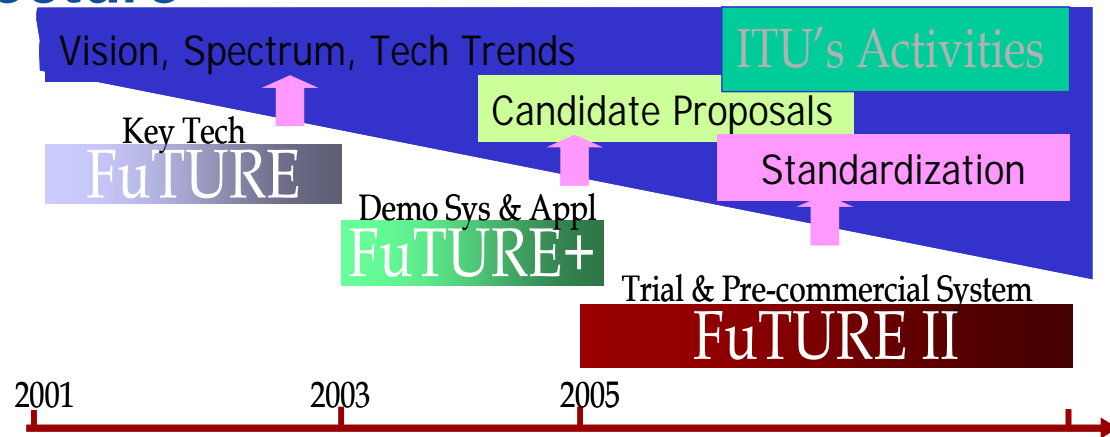
Outward Bound:
Work as a team!!



WTI : Projects

4G TDD Network Architecture

Background: FuTURE project



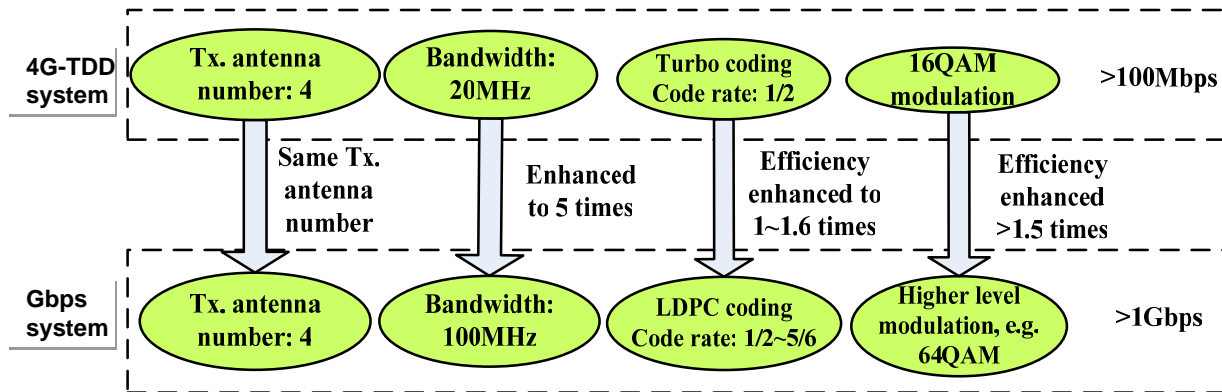
Novel Architecture (2001)

- CoMP
- Flat RAN
- MIMO



WTI : Projects

GBPS 4G TDD trial system



100Mbps



1Gbps

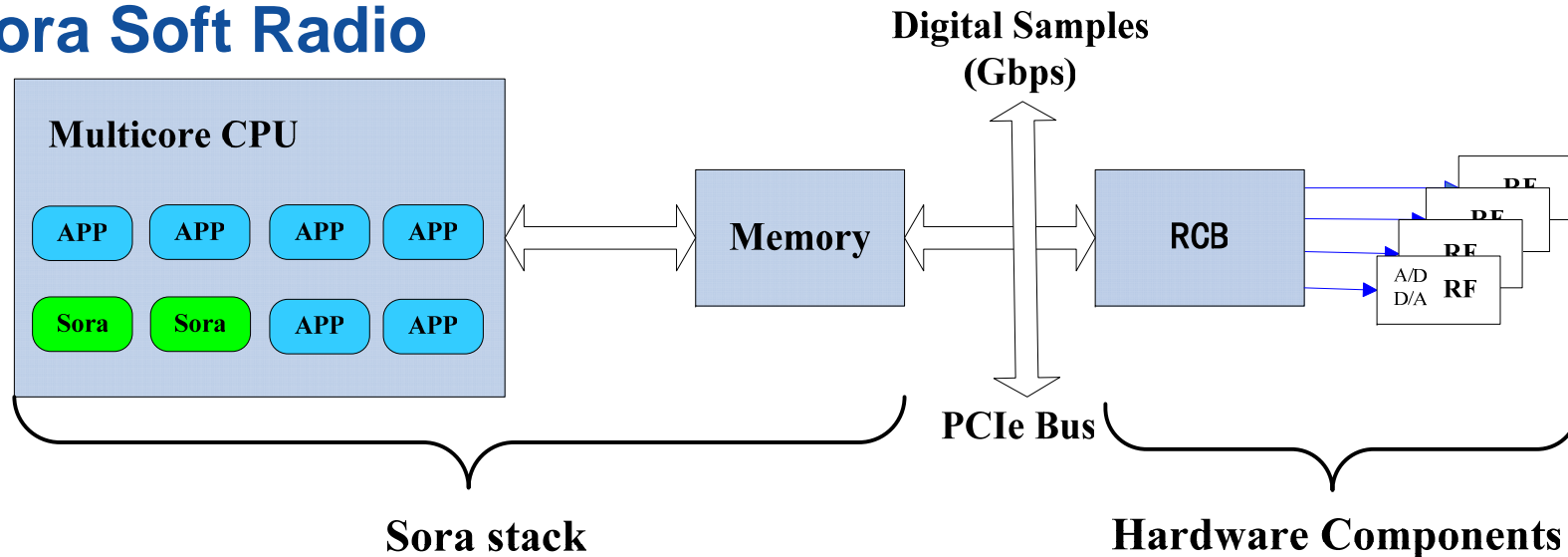


MT1



AP

Sora Soft Radio



Implementation of SoftLTE

■ Features of Sora

- Low cost and energy
- Easy to deploy and update
- More convenient for appliance of new technologies

Trends of future communications

WTI : Domestic Co-operations



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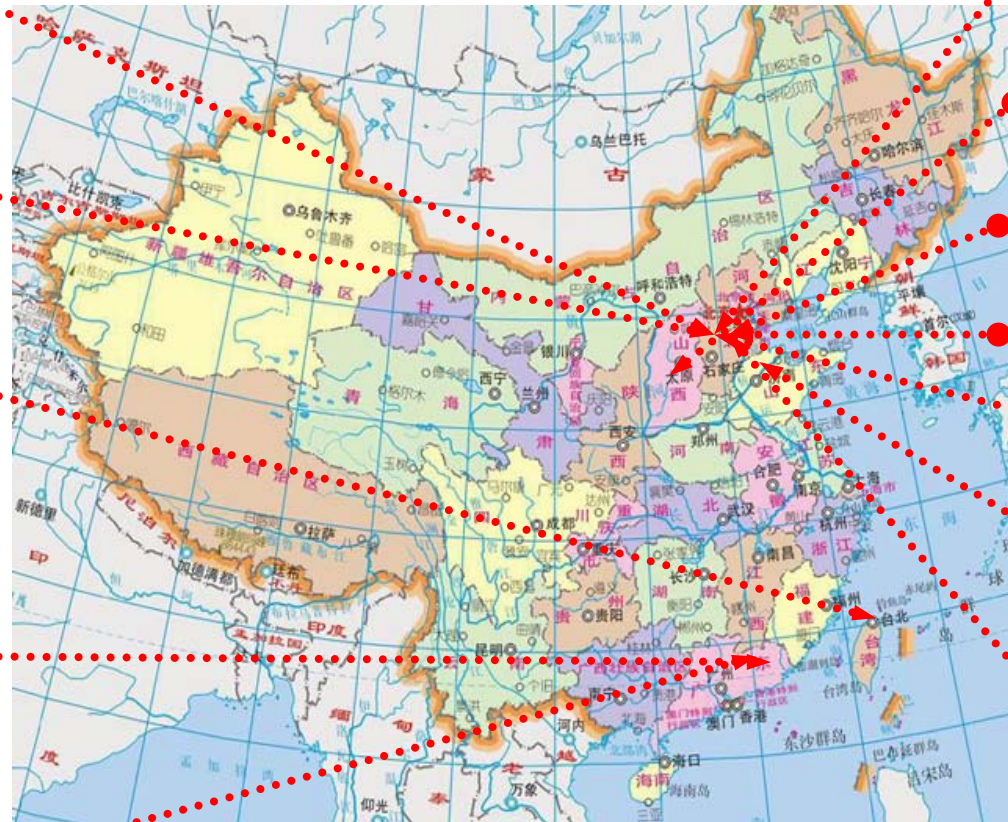


DaTang Group



华为技术

Huawei



MOST
(Ministry of Science & Technology)

MII
(Ministry of Information Industry)

NSFC
(Natural Science Foundation of China)

MOE
(Ministry of Education)

Beijing Government

RITT
(Research Institute of Transmission Technology)

CATT
(China Academy of Telecommunication Technology)



WTI: International Co-operations



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- Cooperation between governments
- A partner with more than 20 companies in 10 countries
- Cooperation and student exchange with 10 international universities and institutes

WTI : Director Introduction



Prof. Zhang

Director of Key
Lab. of Universal
Wireless
Communications
and WTI

- Vice director of Sino-Germany Joint Software Institute
- One of three draftsmen of National Key Program, Member of Experts and Consultants Committee of NSFC
- Member of Experts and Consultants Committee of 3G Mobile Technology Tests of MII
- Vice group leader of Technological Expert Group of TD-SCDMA Industrial League



Our works in UC4G2010



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UK-China Science Bridges:

R&D on (B)4G Wireless Mobile Communications (UC4G)

- **Green multi-users CoMP transmission technique research with University of Edinburgh (UoE), UK**
- **Network coding in future wireless communication with UoE, UK**



北京郵電大學
BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS

Wish UC4G Beijing Workshop a Success!



北京郵電大學

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RESEARCH
COUNCILS UK



UC4G

Thanks!

