TD-SCDMA Industry Alliance
and 3GPP

TDIA

Oct. 2005

Contents

➢ What is TDIA?

➢ Latest developments of TD-SCMDA industrialization and its development plan

➢ Marketing Activities and Cooperation between TDIA and 3GPP
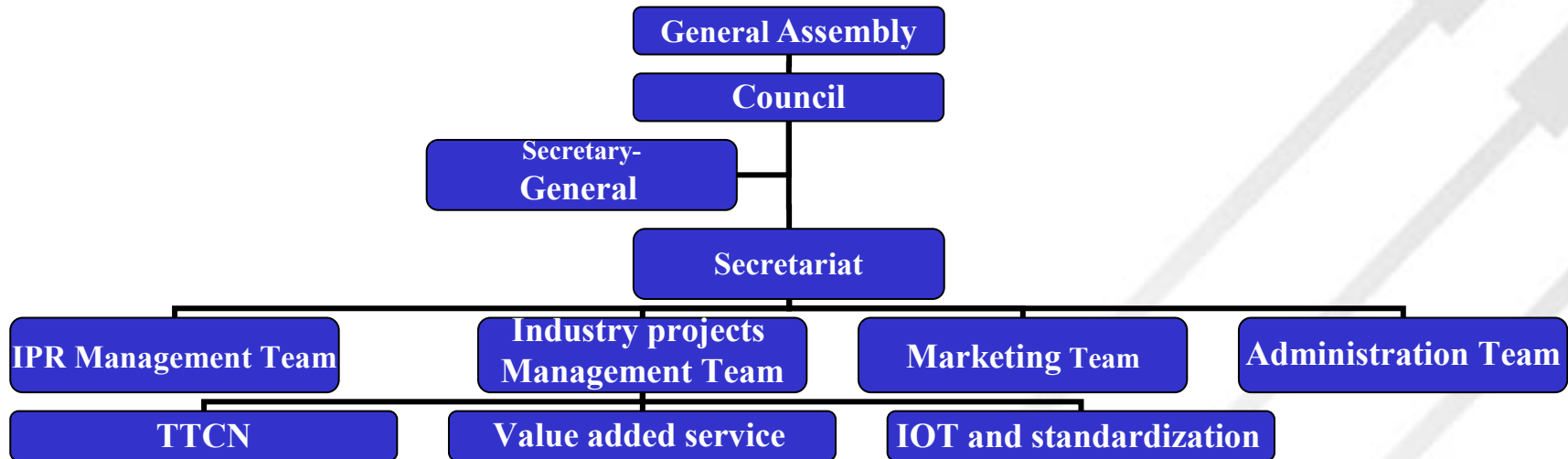
What is TDIA

- 22 members, including 8 council members
- All members are guided by TDIA regulations, and contribute and share IPR according to TDIA policy
- All members actively involved in industrialization of TD-SCDMA
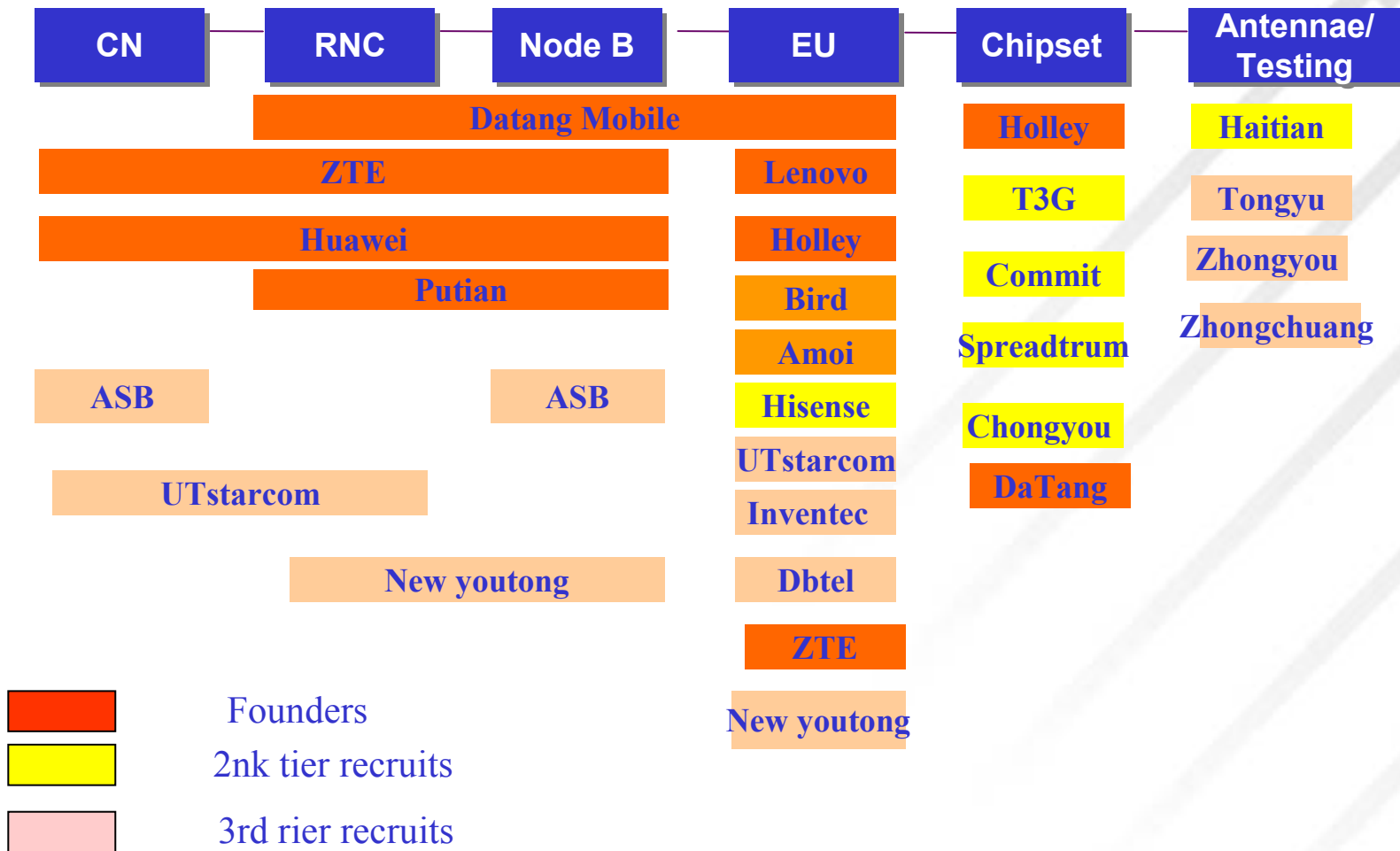
Council Members

Non Council Members

TD-SCDMA Industry Alliance

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                        General Assembly
                             |
                          Council
                             |
        Secretary-           |
         General ────────────┤
                             |
                        Secretariat
    ┌────────────┬──────────┴──────────┬──────────────────┐
IPR Management   Industry projects    Marketing Team   Administration Team
    Team         Management Team
    │                    │                  │
  TTCN          Value added service   IOT and standardization
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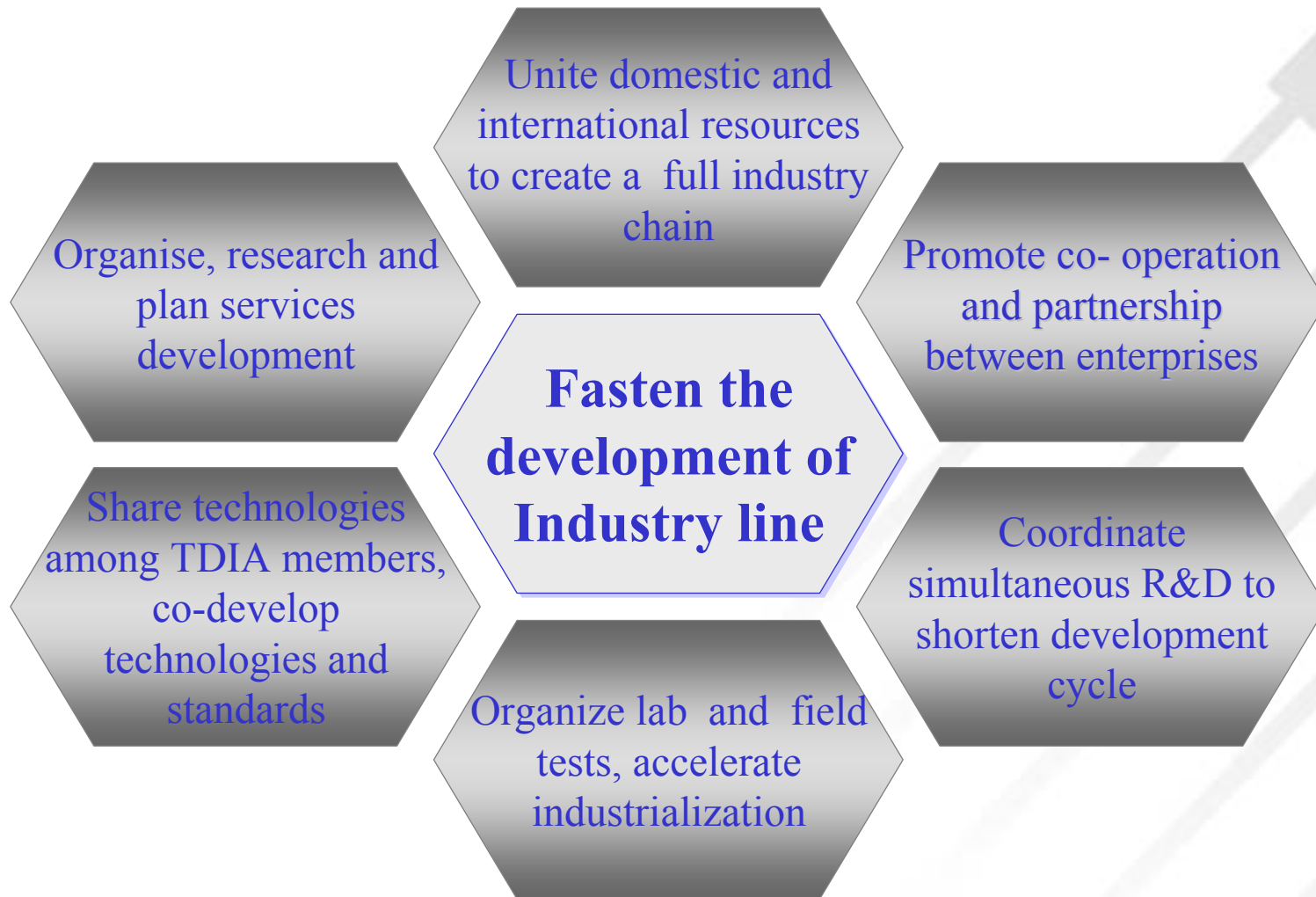
Mission:

- Promote the technological development and industrialization of TD-SCDMA

- Integrate and coordinate industry resources among members

- Improve the development of the TD-SCDMA market and applications

- Support the development of TDIA members

The Distribution of TDIA Members

CN	RNC	Node B	EU	Chipset	Antennae/Testing
Datang Mobile	Datang Mobile	Datang Mobile		Holley	Haitian
ZTE	ZTE	ZTE	Lenovo	T3G	Tongyu
Huawei	Huawei	Huawei	Holley	Commit	Zhongyou
	Putian	Putian	Bird	Spreadtrum	Zhongchuang
			Amoi	Chongyou	
ASB		ASB	Hisense	DaTang	
			UTstarcom		
UTstarcom	UTstarcom		Inventec		
	New youtong	New youtong	Dbtel		
			ZTE		
			New youtong		

Founders

2nk tier recruits

3rd rier recruits

5

Fasten Development of Industry Chain

Unite domestic and international resources to create a full industry chain

Organise, research and plan services development

Promote co- operation and partnership between enterprises

Fasten the development of Industry line

Share technologies among TDIA members, co-develop technologies and standards

Coordinate simultaneous R&D to shorten development cycle

Organize lab and field tests, accelerate industrialization

Systems Equipment	大唐電信 ALCATEL 中国普天 CHINA PUTIAN NORTEL NETWORKS UTStarcom	ZTE中兴 ERICSSON Huawei Technologies SIEMENS
Chipset	ST ANALOG DEVICES LG Electronics NOKIA Connecting People PHILIPS Motorola SAMSUNG RTX TEXAS INSTRUMENTS	
User Equipment	SAMSUNG LG Electronics UTStarcom	
Others	ROHDE&SCHWARZ Agilent Technologies Tektronix cadence SYNOPSYS sasken Make the Right Connection	

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Reasons behind TD-SCDMA success in China

—**Good product planning and performance in the industrialization process serve supports for TD-SCDMA success!**

●**At present, the multi-supplier environment of TD-SCDMA has formed in each process to guarantee the commercialized products time to market.**

Handset chipsets：
T3G,ADI, COMMIT,Holly, ChongYou, Spreadtrum, DTmicro
Handsets：
DT, Samsung, CECw,Soutech, Hisense,LG,Dbtel ,Bird,Lenovo, Amoi,TCL,Hair,I nventec,Chongyou,ZTE,UT

Access network：
DT, ZTE, Putian, UT, Huawei, ASB,Siemens,New youtong

SCP
HLR/AC/EIR
SMS IW/GMSC
MSC/VLR
GMSC
CS Backbone
（ATM or IP）
PSTN/ISDN /现有PLMN

NodeB   RNC
Iub
(ATM)
TD-SCDMA RAN

IuCS

IuPS

Uu

3G SGSN

PS Backbone
(IP Network)

其他GPRS

BG

GGSN

INTERNET

CN：
Siemens, Huawei, ZTE, Nortel,Putian,Al catel

Test Instruments:
Agilent
R&S
RACAL
Shibasoku
Tektronix
CVIC,Zhongyou

Latest Development of TD-SCDMA: Products

All systems equipment vendors have started their LTE campaign. TD-SCDMA strengthened commercial equipments, enabled with HSDPA, will be available in 1HY 2006.

1 Systems vendors have completed the 1st commercial system version with a full series of equipment such as macro and micro cellular, and single and multi carrier serials equipments. Large scale production will commence by the end of the year.

2

TD-SCDMA call for commercial service

3 TD-SCDMA chipsets support voice and data service with handover and interoperation ability; Support up to 384K data speeds ;

Will provide total solution and chipsets for mass market demand by the end of 2005
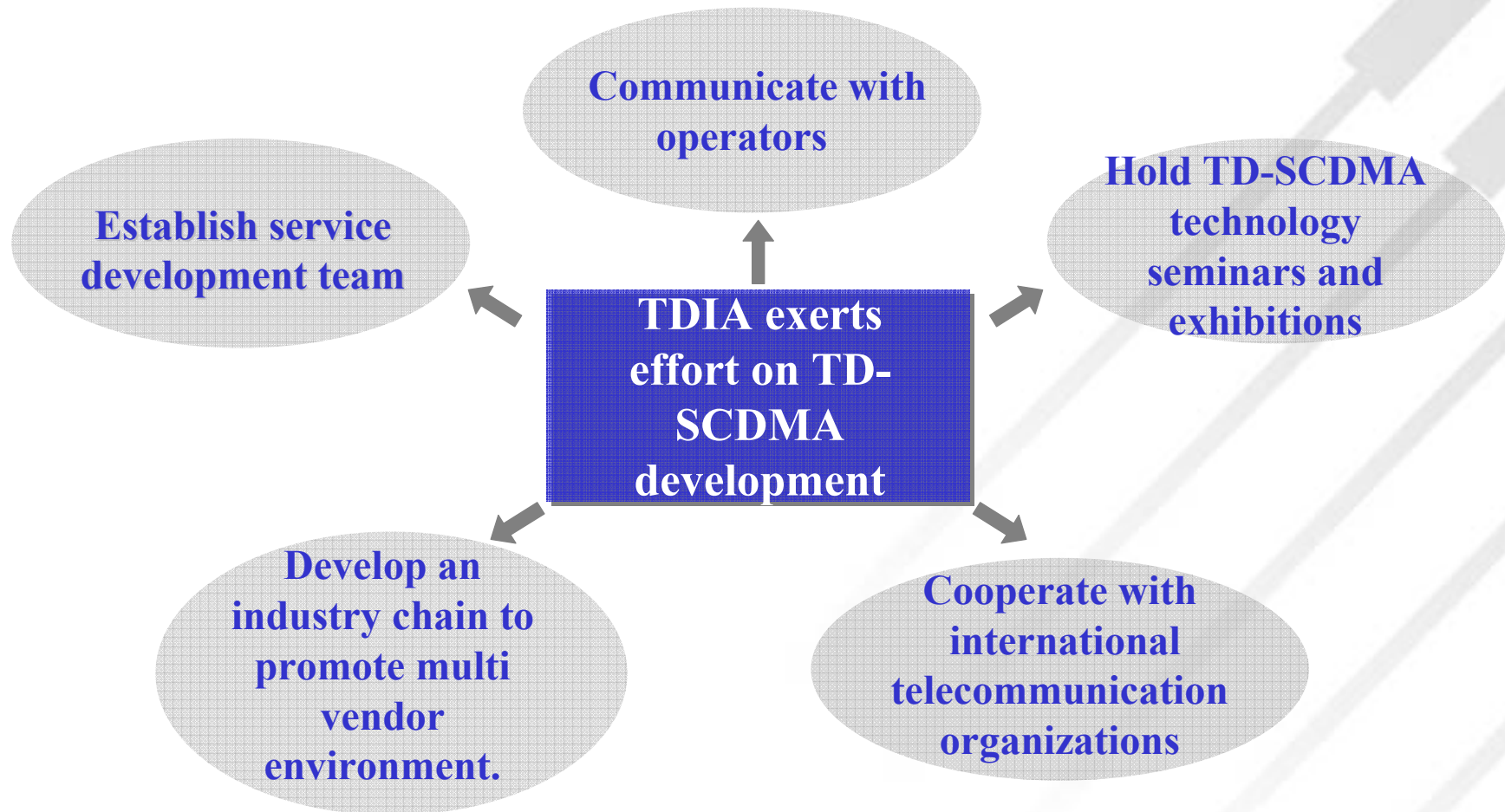
4

TD-SCDMA terminals support all 3G services such as video phone, and VOD.

The UE power is able to last 80-100 hrs

Commercial production will start at the beginning of 2006.

Latest Development of TD-SCDMA: Network Performance

➢ The efficiency of TD-SCDMA system key technologies such as SA, Baton Handover, DCA, and Joint Detection has been proved in field testing.

➢The systems coverage achieved the maximum level of theoretical design with a full local cell loading and real loading in adjacent cells; the system performance met the requirement of standalone networking.

➢ The local cell volume achieved the max level of theoretical design under disturbance at the same or different frequency from an adjacent cell.

➢In tests, under10M bandwidth TD-SCDMA supports 12 asymmetric data services (1:5) at the speed of 384K , which **proved the high spectrum efficiency of TD-SCDMA**

➢The field test has proved that TD-SCDMA is fully capable of supporting commercial service.
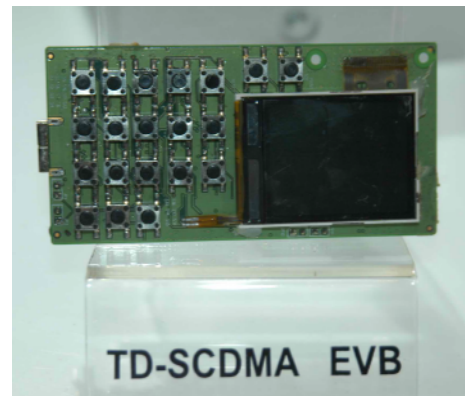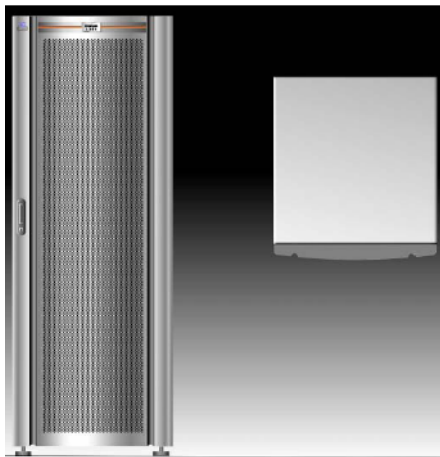
TD-SCDMA EVB

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Marketing Activities

Communicate with operators

Establish service development team

Hold TD-SCDMA technology seminars and exhibitions

TDIA exerts effort on TD-SCDMA development

Develop an industry chain to promote multi vendor environment.

Cooperate with international telecommunication organizations

Work with 3GPP

* TDIA takes parts in the 3GPP LTE program. One member has submitted 2 TDD standard evolution reports, while other members have also made significant contributions to the TD-SCDMA LTE study.

* TDIA will organize members to contribute to the 3GPP LTE program.

LTE

Market promotion

TTCN
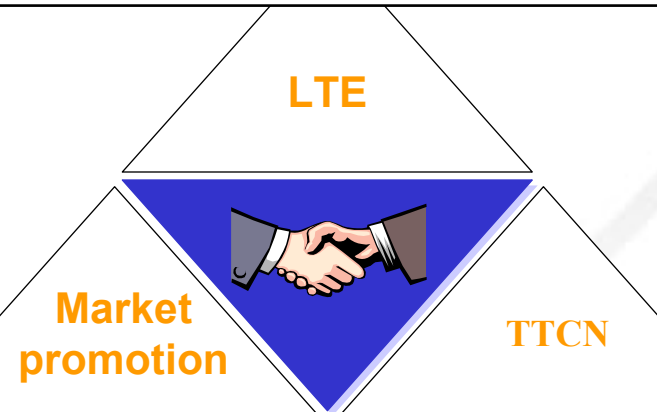
* TDIA will share the latest development of TD-SCDMA with 3GPP

* TDIA will assist 3GPP with market study and information collection in China and world telecommunication markets

* TDIA will be active in 3GPP programs and promote 3GPP's presence in China and globally

* Sent experts to 3GPP to develop TTCN code since April 2004

* Handed in + 80 CRs, and finished +300 testing cases.

* Cooperating with sound testing Labs

➢Will promote further cooperation in TTCN. Plan to finish code development in two years and start code certification work soon.

➢Promote the standardization of TDD technology and guide its evolution

➢Work together with all 3GPP members under the framework of 3GPP to promote 3G development in the world.

Thanks !