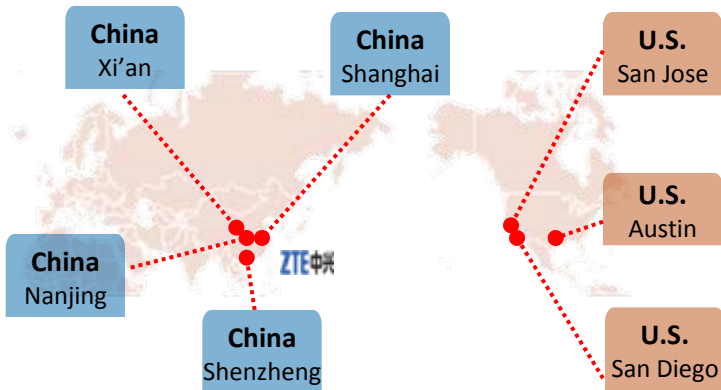
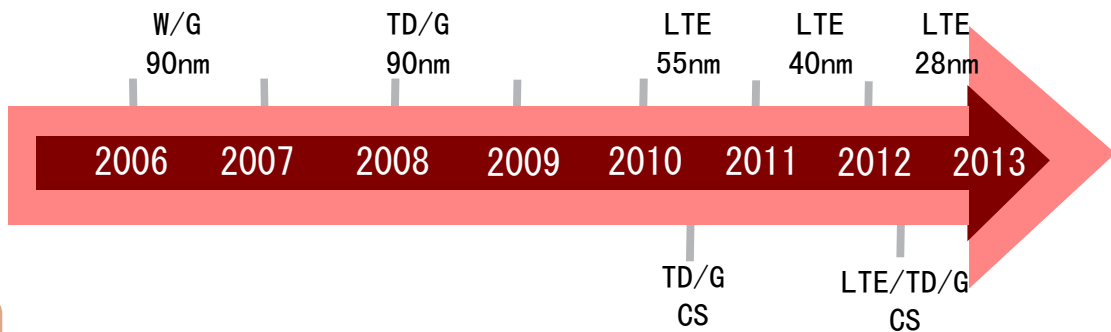


# **ZTE TD-LTE Chipset and Terminal Product Roadmap**

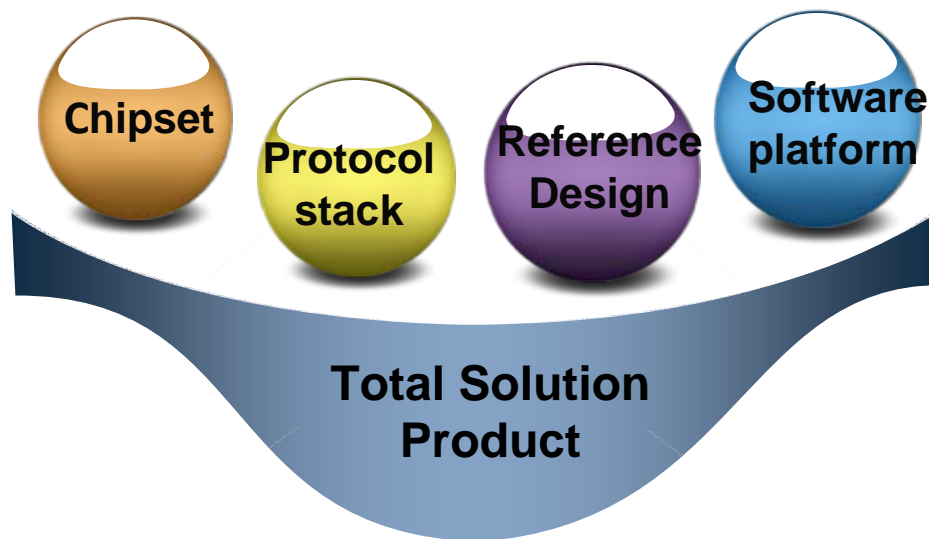


# Introduction to ZTE Terminal IC



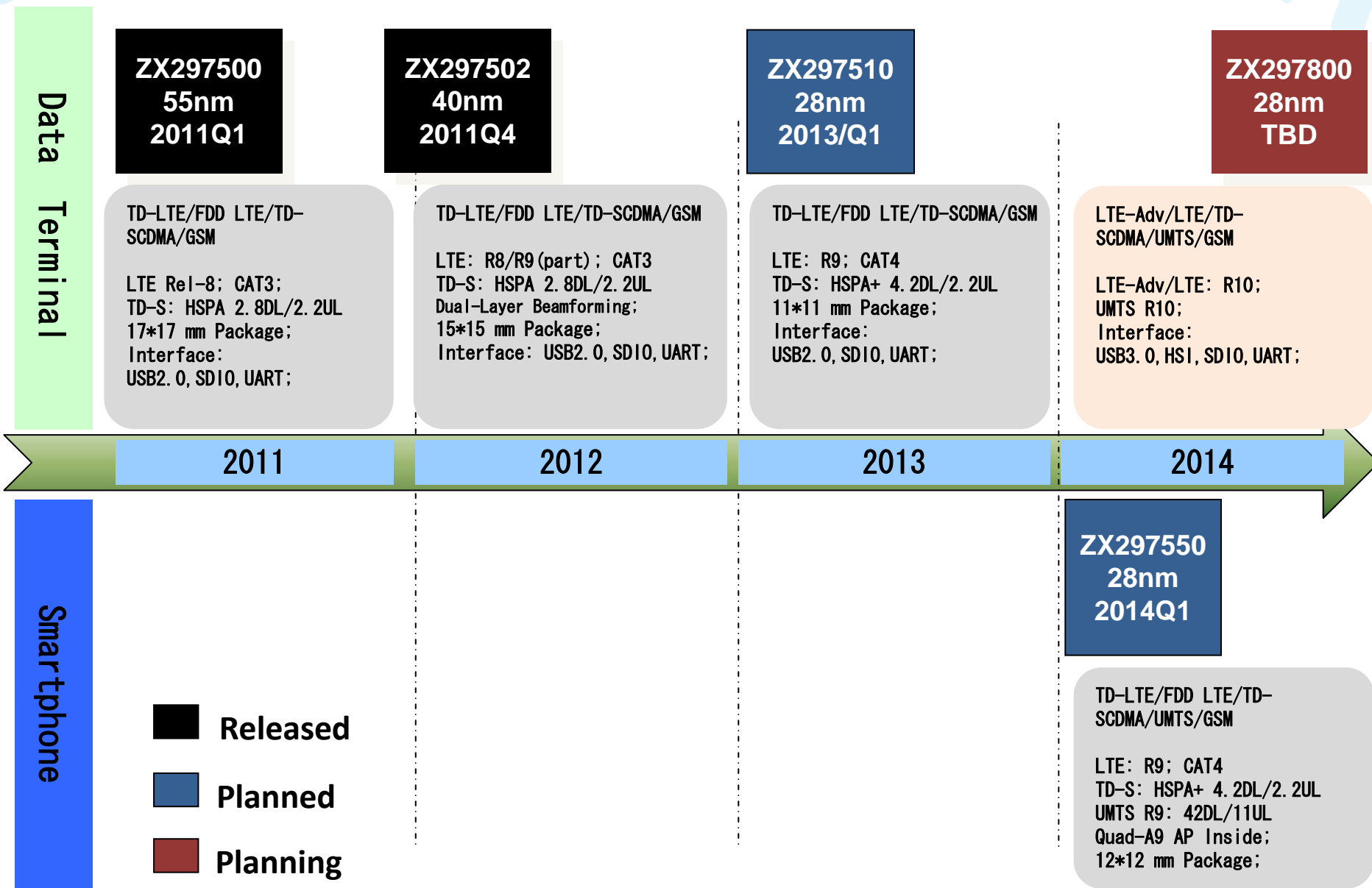
**800+ employees in 7 locations**

## Catching up with IC and MODEM technology



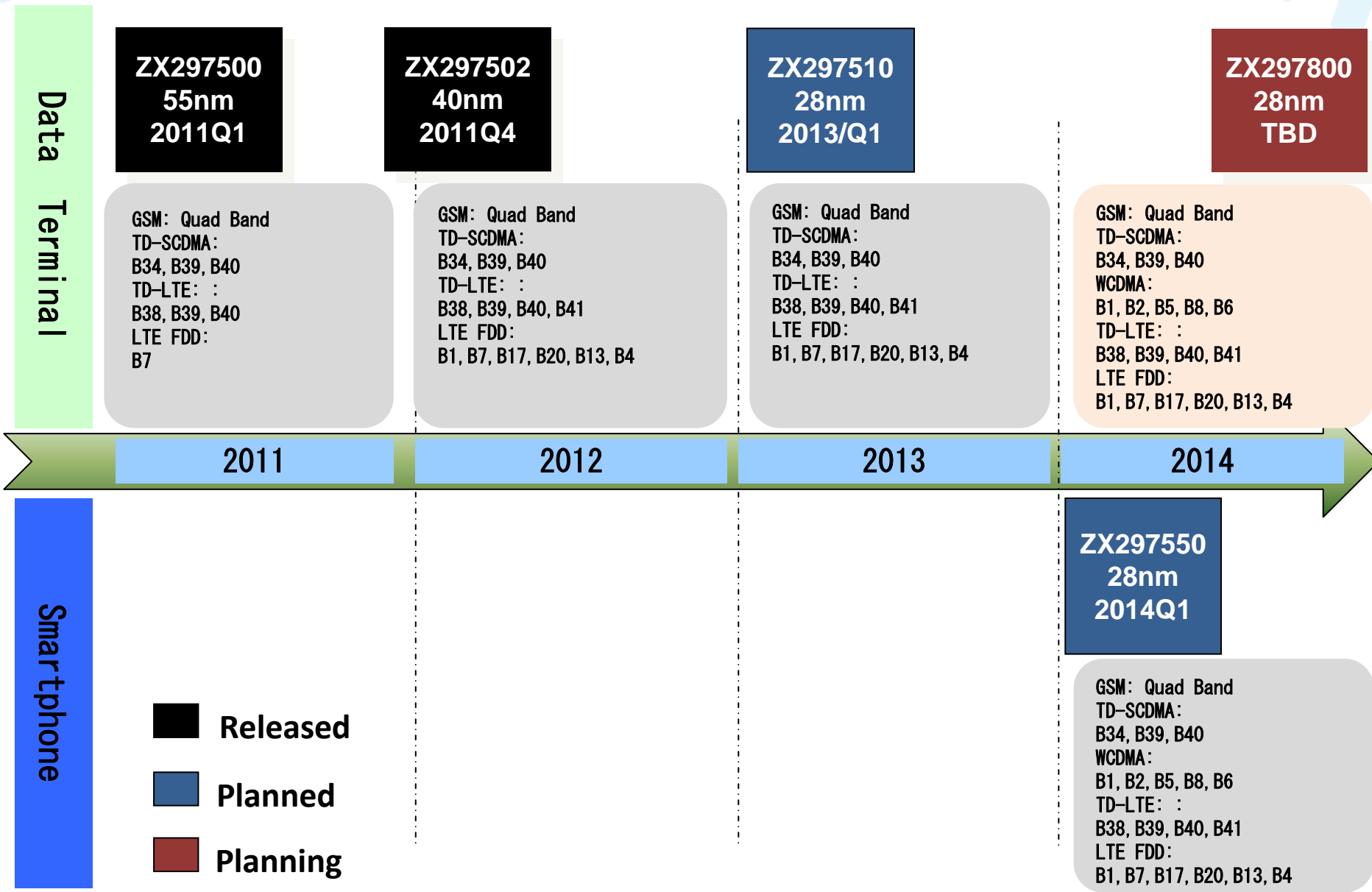
## ZTE's Terminal Total Solution Product

# Roadmap of ZTE LTE Multi-Mode Chipset



- Released
- Planned
- Planning

# Roadmap of ZTE LTE Multi-Mode Chipset(Band)













# ZTE LTE Chipset Bringing You Closer to TD-LTE:

- First priority to support 3GPP TDD technology
  - Ready for LTE Rel-9 commercialization
  - Committed efforts for IOTs
  - Chip-Proven SDR technology to support future 3GPP evolution
- Mutli-mode single Baseband chip solution bringing
  - Low power consumption: Smartphone solution with a single ZX297502 or ZX29710 MODEM chip
  - Flexible Inter-RAT strategy implementation: Faster TD-LTE deployment with current 2G/3G networks
  - Faster inter-RAT operations
  - World-wide roaming
  - Support single-standby and voice/data dual-standby
- Turn-key solution
  - Complete chipset and SW platform
  - Support available at each step from chipset to LTE terminal



# TD-LTE IOTs with ZTE LTE Chipset (1/3)

## China MTnet Lab Certification - Stage 1: TD-LTE Rel-8 features

	2011Q1	Q2	Q3	Q4	2012Q1	Q2
	IOTD	IOT in Lab	Field in HUIROU	Field in GUANGZHOU  11/17 Complete		
		IOT in Lab	Field in SUNYI	Field in HANGZHOU  11/26 Complete		
				IOT in Lab  12/7 Complete		
				IOT in Lab  1/16 Complete		
				IOT in Lab  2/5 Complete		




# TD-LTE IOTs with ZTE LTE Chipset (2/3)

China MTnet Lab Certification - Stage 2:  
 Required R9 feature: Dual-Layer Beamforming and etc.,  
 Multi-mode Inter-RAT operation with TD-SCDMA

	2011Q2	Q3	Q4	2012Q1	Q2	Q3
			IOT Lab	Mult-Mode in Huairou	R9 Huairou	3/5 Complete
				IOTLab Beijing		3/14 Complete

# TD-LTE IOTs with ZTE LTE Chipset (3/3)

Field Testing with China Mobile:  
 R9 Dual-Layer Beamforming testing with ZTE in Guangzhou  
 Inter-RAT testing with Nokia-Siemens in Hangzhou  
 IOT with Alcatel-Lucent planning

	2012Q1	Q2	Q3	Q4	2013Q1	Q2	Q3
	R9 (Dual-Layer Beamforming) ↔ IOT/Multimode Field				★ Complete 30 April		
	IOT/Multimode Field				★ Complete 30 April		
		IOT Field			★ Complete 30 April		



# Roadmap of Terminal Product with ZTE Chipset

ZTE Ref Design Product



MF820S2  
Chipset: ZX297502  
Product: TD-LTE/LTE FDD/TD-S/GSM Datacard  
Milestone: 2012.4



MF97S  
Chipset: ZX297502  
Product: TD-LTE/LTE FDD/TD-S/GSM uFi  
Milestone: 2012H2(TBD)



Product: TD-LTE/LTE FDD/TD-S/GSM Datacard  
Chipset: ZX297510  
Milestone: TBD



Product: TD-LTE/LTE FDD/TD-S/GSM Smartphone  
Chipset: ZX297510+AP  
Milestone: TBD



MF29S  
Chipset: ZX297502  
Product: TD-LTE/LTE FDD/TD-S/GSM CPE with WiFi  
Milestone: 2012.5

- Released
- Planned
- Planning

2012

2013

TSP Solution

  
*Bringing you Closer*

# MF820S2

## World's 1<sup>st</sup> TD-LTE/TD-S/FDD/GSM Chipset



### Specifications

<b>Protocol</b>	TD-LTE/LTE-FDD/TD-SCDMA/GSM LTE Rel.8/Rel.9
<b>Chipset</b>	ZTE ZX297502
<b>Radio</b>	TD-LTE Band38/39/40 LTE- FDD Band7 TD-SCDMA Band34/39/40 GSM Band 2/3/5/8
<b>Dimensions</b>	91x34x13.5mm
<b>Bandwidth</b>	LTE: 1.4,3,5,10,15, 20MHz
<b>Peak Data Rate</b>	FDD LTE: DL/UL 100/50 Mbps (Cat 3) TD-LTE: DL/UL 68/17 Mbps (Cat 3)
<b>DL MIMO</b>	2x2 MIMO,4*2MIMO
<b>Interface</b>	USB 2.0
<b>OS</b>	Win XP, Win 7 Win Vista, Mac
<b>Milestone</b>	2012.4

# MF29S (Indoor CPE)



## Specifications

<b>Chipset</b>	ZTE ZX297502
<b>Protocol</b>	TD-LTE/LTE-FDD/TD-SCDMA/GSM LTE: Rel 8, Rel 9 WiFi: 802.11 b/g/n
<b>Radio</b>	TD-LTE Band38/Band39/Band40 LTE- FDD Band7 TD-SCDMA Band34/Band39/Band40 GSM Band2/Band3/Band5/Band8
<b>Bandwidth</b>	LTE: 1.4, 3, 5, 10, 15, 20MHz
<b>Dimensions</b>	202 x 160 x 30.5 mm
<b>Peak Data Rate</b>	FDD LTE: DL/UL 100/50 Mbps (Cat 3) TD-LTE: DL/UL 68/17 Mbps (Cat 3)
<b>DL MIMO</b>	2x2 MIMO、 4x2 MIMO
<b>Interface</b>	4RJ45, 2RJ11, USB 2.0
<b>Web GUI OS Compatibility</b>	Win XP, Win Vista, Win7, Mac OS
<b>Advanced Features</b>	Web GUI (Customized )
<b>Milestone</b>	2012.5

# MF97S



Specifications	
<b>Chipset</b>	ZTE ZX297502
<b>Protocol</b>	LTE: Rel 8, Rel 9 WiFi: 802.11 b/g/n
<b>Radio</b>	TD-LTE Band38/Band39/Band40 LTE- FDD Band7 TD-SCDMA Band34/Band39/Band40
<b>Bandwidth</b>	LTE: 10, 20MHz
<b>Dimensions</b>	TBD
<b>Peak Data Rate</b>	FDD LTE: DL/UL 100/50 Mbps (Cat 3) TD-LTE: DL/UL 68/17 Mbps (Cat 3)
<b>Interface</b>	MicroUSB port, standard USIM, Micro SD slot(up to 32GB) , Power button, WPS button
<b>OS</b>	Win XP, Win Vista, WIN7,Mac OS
<b>Function</b>	Up to 10 WiFi devices
<b>Advanced Features</b>	Auto-install, VPN, OTA
<b>Battery</b>	<b>3000 mAh</b> , Li-Ion battery
<b>Milestone</b>	TBD

  
*Bringing you Closer*

**Thanks!**