



Tempus

Development of Embedded System Courses with implementation of
Innovative Virtual approaches for integration of Research,
Education and Production in UA, GE, AM

Presentation of P12 – “Yerevan Telecommunication Research Institute” CJSC YeTRI



Tbilisi Technical University
27-29 October 2015

Mher Markosyan



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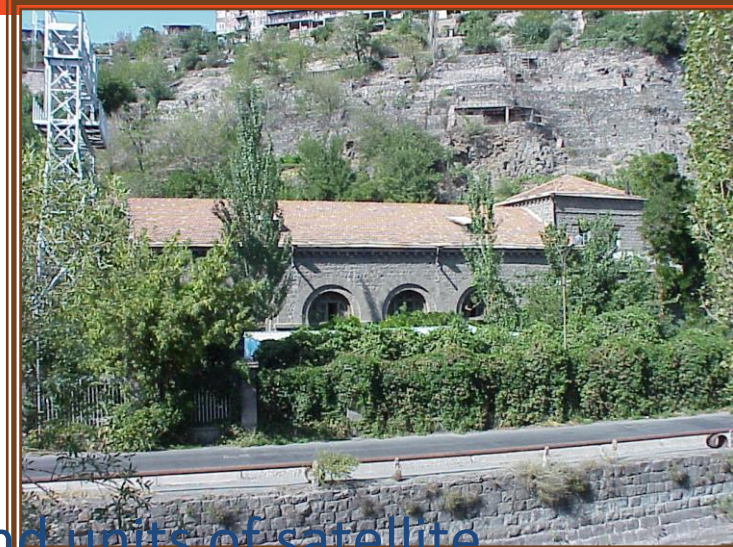
DesIRE



Founded in 1978
as Moscow
Scientific
Research

Institute of Radio
Communication

Specialized in the field of means and units of satellite
communication.



Since 1989 is an independent institute and works in the field of:

- design and manufacturing of communication systems and units ,
- radio technical systems for different purposes (Hardware & Software);
- Software.



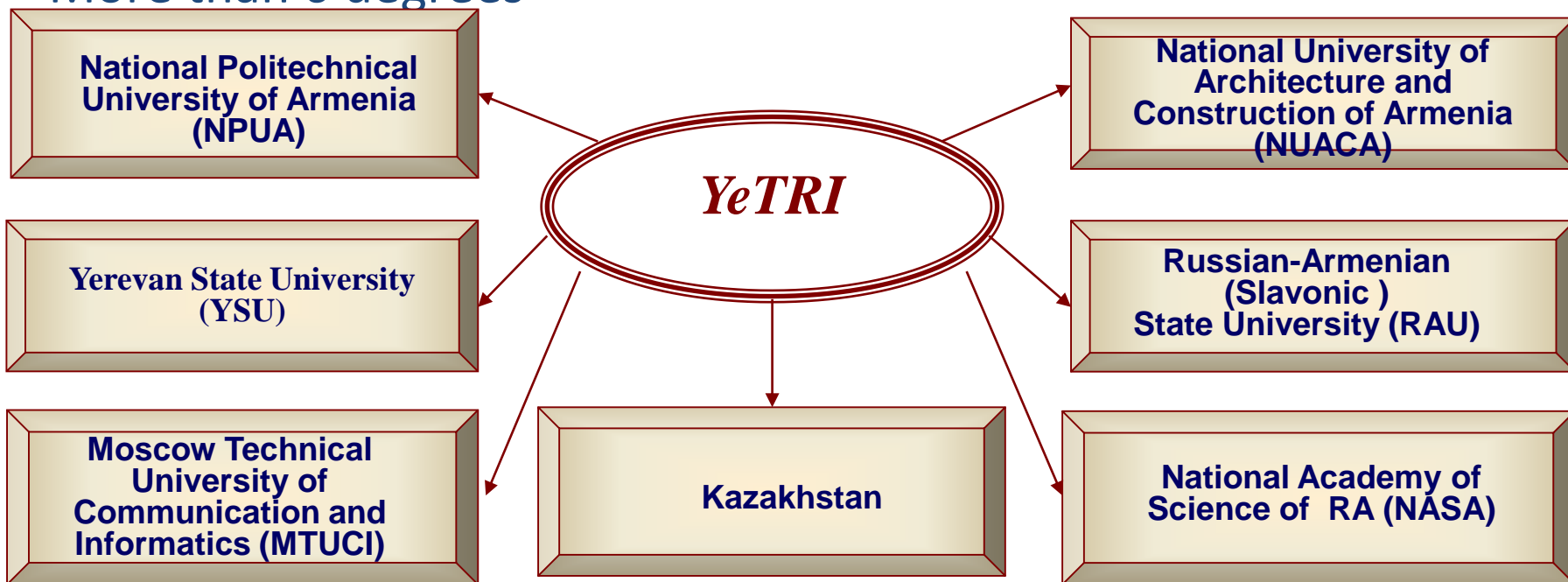


YeTRI

More than 400 students (from YSUAC, RAU, NASA, SEUA, YSU)

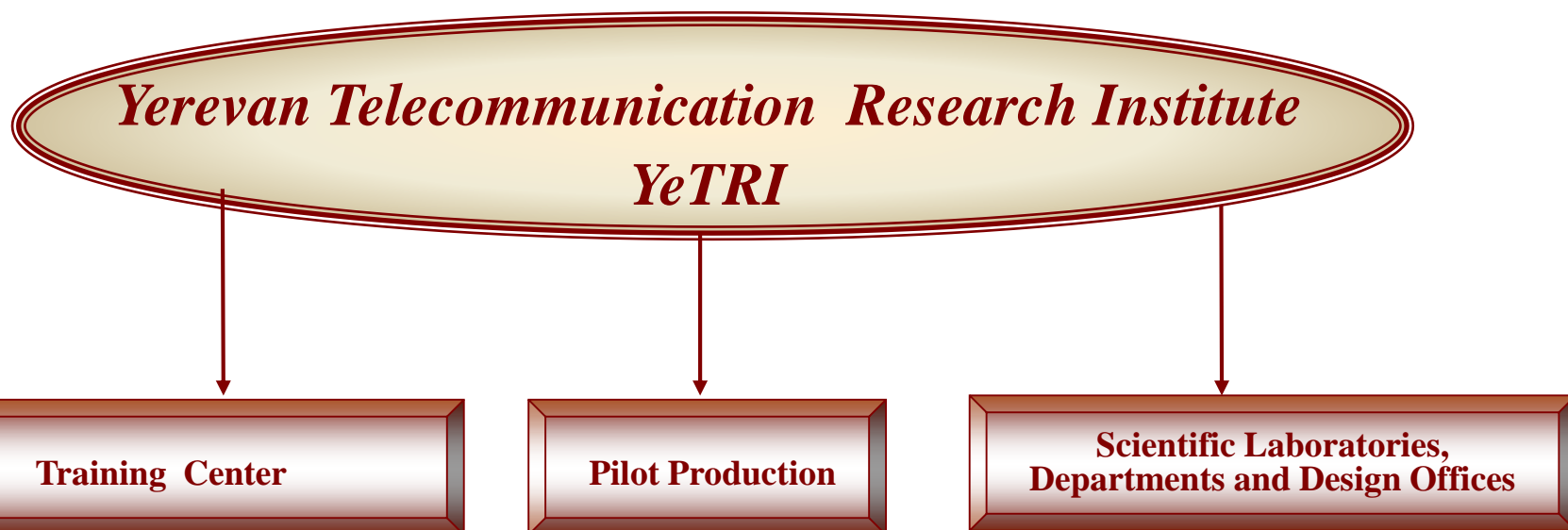
More than 130 staff members (30 in the field of trainings, 6 with scientific degrees, 3 with ranks of professors)

More than 6 degrees



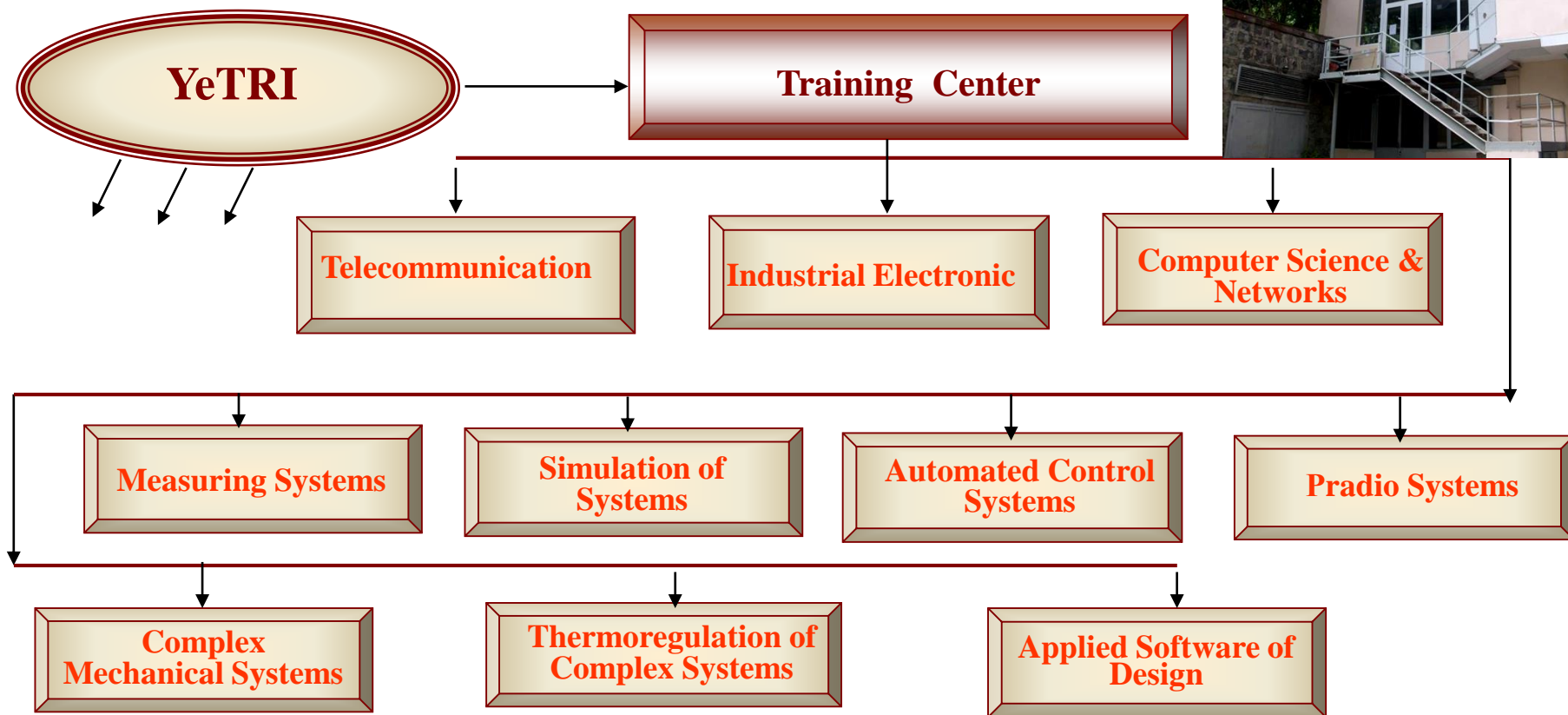


Structure of YeTRI





Structure of YeTRI





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Structure of YeTRI Training Center





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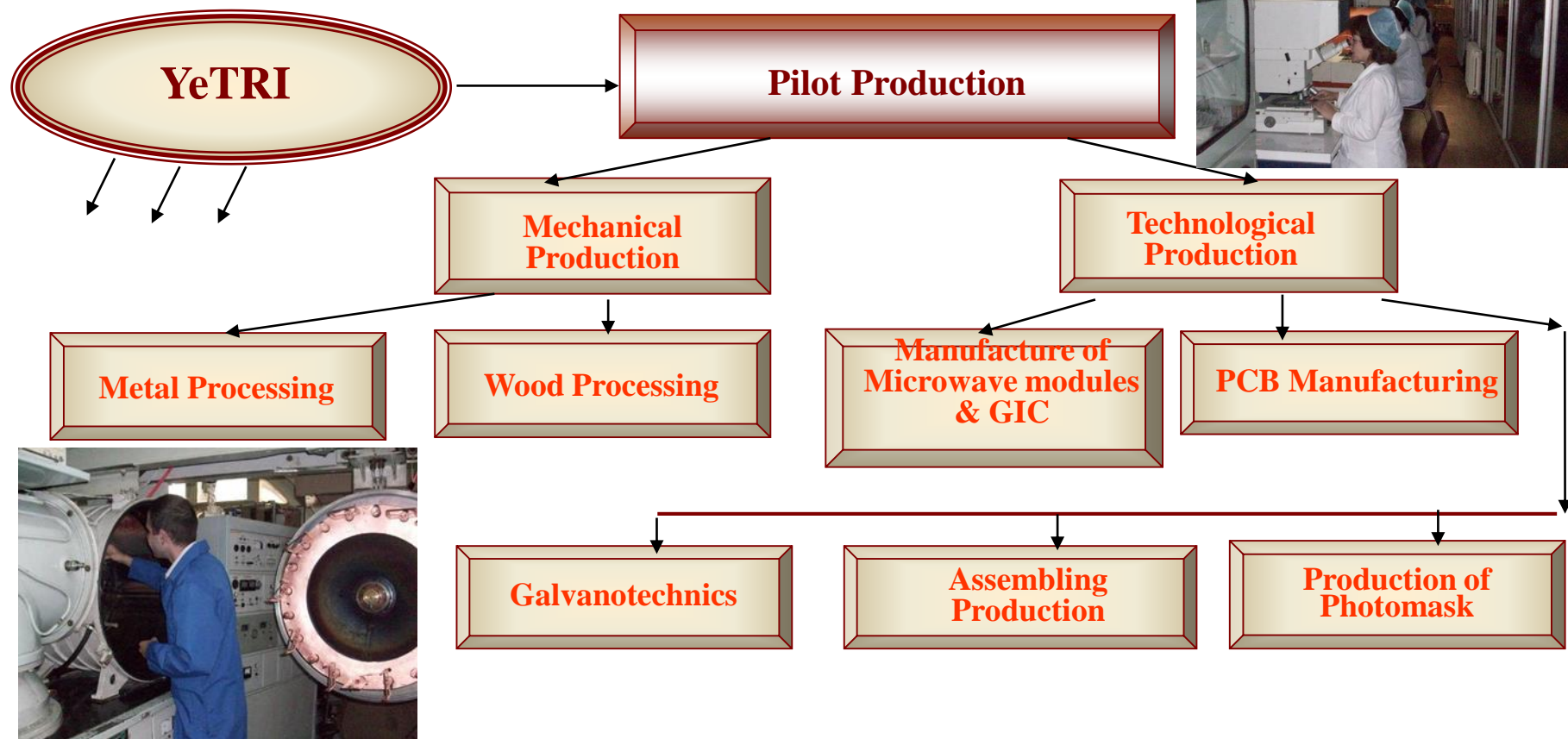
Structure of YeTRI

Training Center



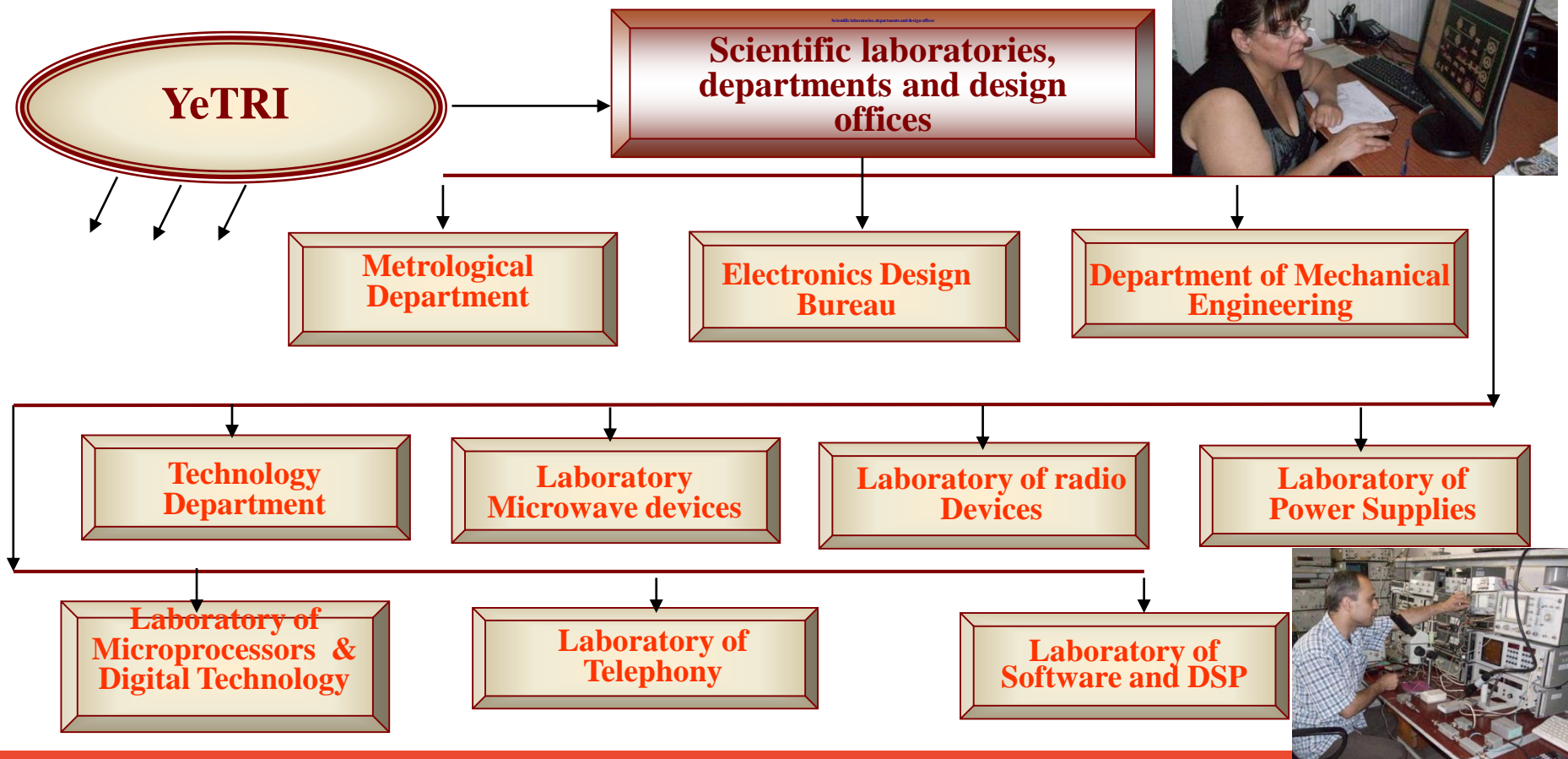


Structure of YeTRI



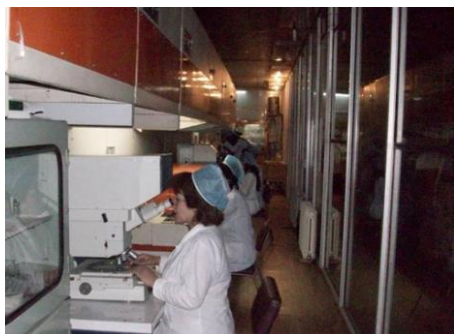


Structure of YeTRI





Technological Forces





GSM, 3G Repeater



Radio system for simultaneous translation



VHF, UHF repeater



Internet-TFOP connector



Jammer GSM



TV FM Transmitters



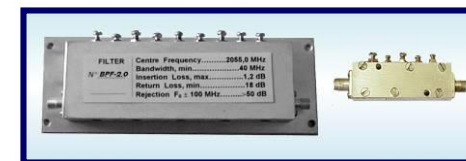
RF PA



Radio modem



GSM Duplexer



Band pass filters (VHF, UHF, RF, MW)



Analogue and digital
conference system

Loud-speaking
communication system

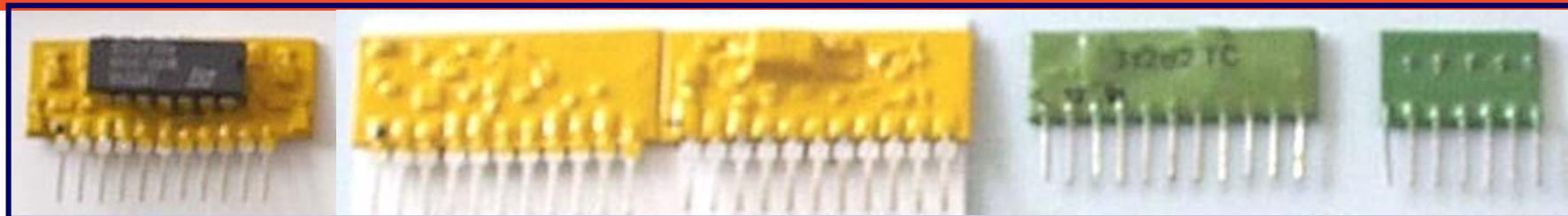


Mini ATES-8/2
Multichannel manual
switchboard of phone lines

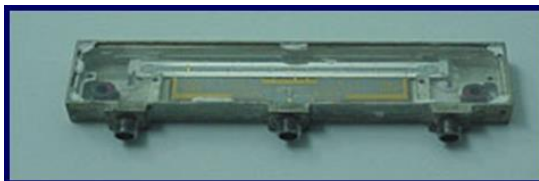
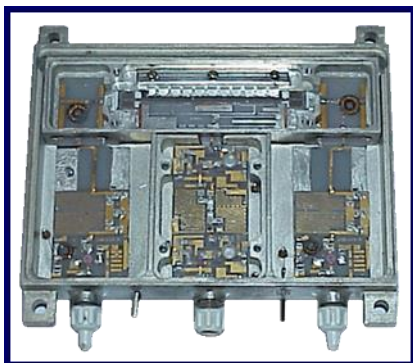


Mini ATES up to 20 subscribers





Design and manufacturing of microcircuits and micro assembly by order



Acousto-optic convolver



Module of correlation processing



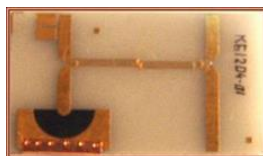
Crystal oscillator of reference frequency



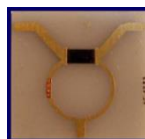
Voltage controlled oscillator (VCO)



Delay lines



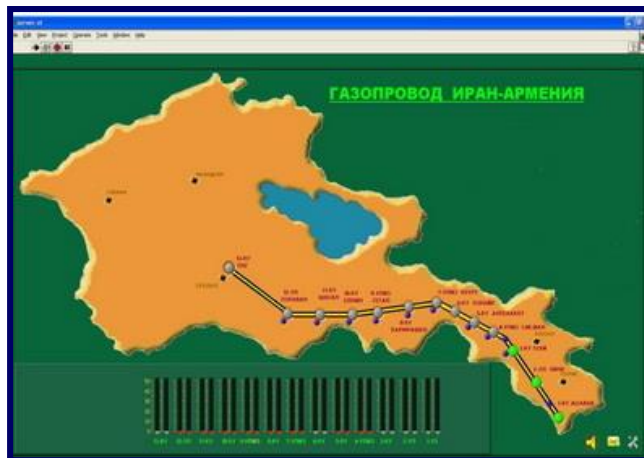
Micro-strip directional couplers



Circuit power dividers/combiners



SCADA system



System of call registration



Biometric system of staff registration

"PIANO" SYSTEM



Automated control system by technological processes



Controller for technological processes



GPRS controller



VSWR sensor for P2-102 device



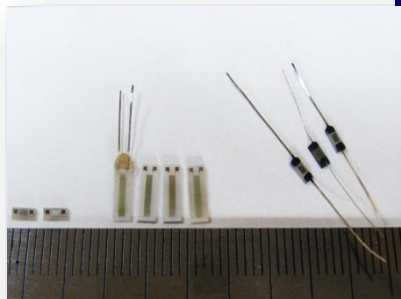
Inclinometer



Detector head for P2-102 measuring device

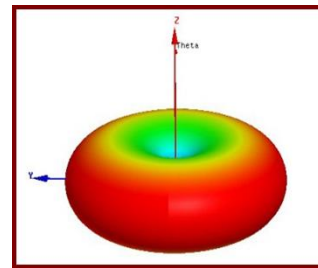


Temperature and pressure sensors





GPRS modems with controller



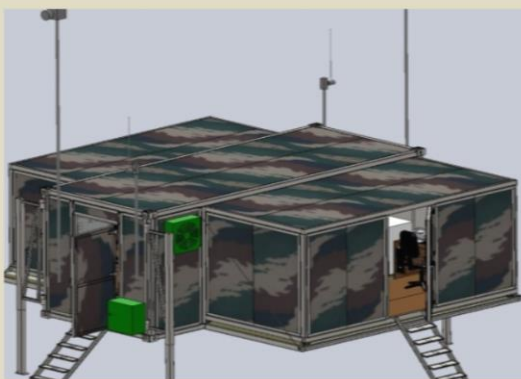
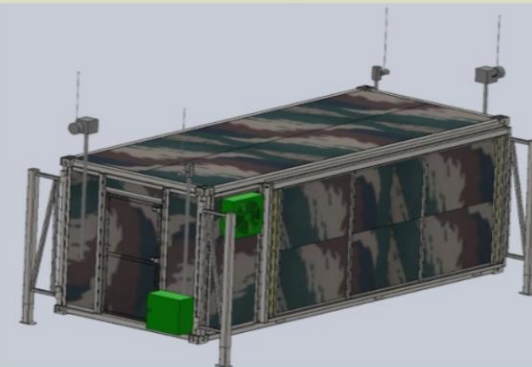
Antennas and rotary support





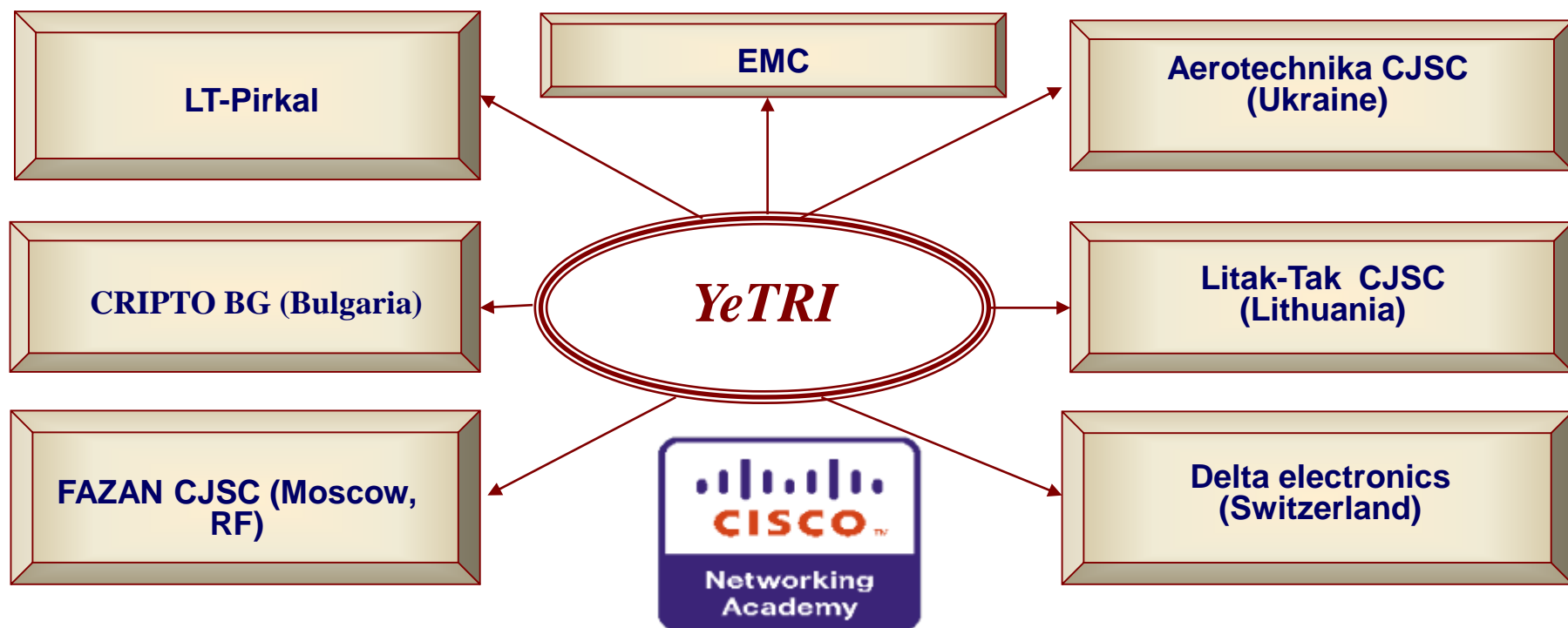
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Enterprises and Companies





Local Project Team

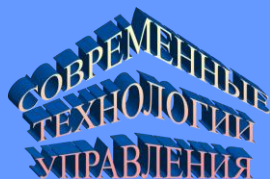
- Laboratory of radio devices, Laboratory of microprocessors & digital technology
 - specialized in embedded hardware and software development
 - analogue and digital system design
- Department of Mechanical Engineering
 - Mechanical and structural design and behavior.





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М. В. Маркосян, А.М. Макарян

Система менеджмента качества (СМК)

Методические указания

DesIRE





At the YeTRI the following curricula have been developed for the *DEPARTMENT OF MANAGEMENT AND TECHNOLOGY*

- Microcontrollers
- Hardware for Embedded Systems
- “C” for Embedded Systems
- Embedded Operating System
- ECAD electronic design
- Digital Electronics





Activities Carried out

- Collaboration was set among partner universities
- Dissemination meetings with partner universities were held
- Support of Retraining within the scope of Desire Project
- Preparation of a handbook on





Activities Carried out

- Regular Disseminations within the scope of DeSIRE Project were held in Yerevan
- On July 15, 2014 Dissemination of DeSIRE Project was held in Sevan Town, Armenia.





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