

METEKSAN DEFENCE INDUSTRY INC.



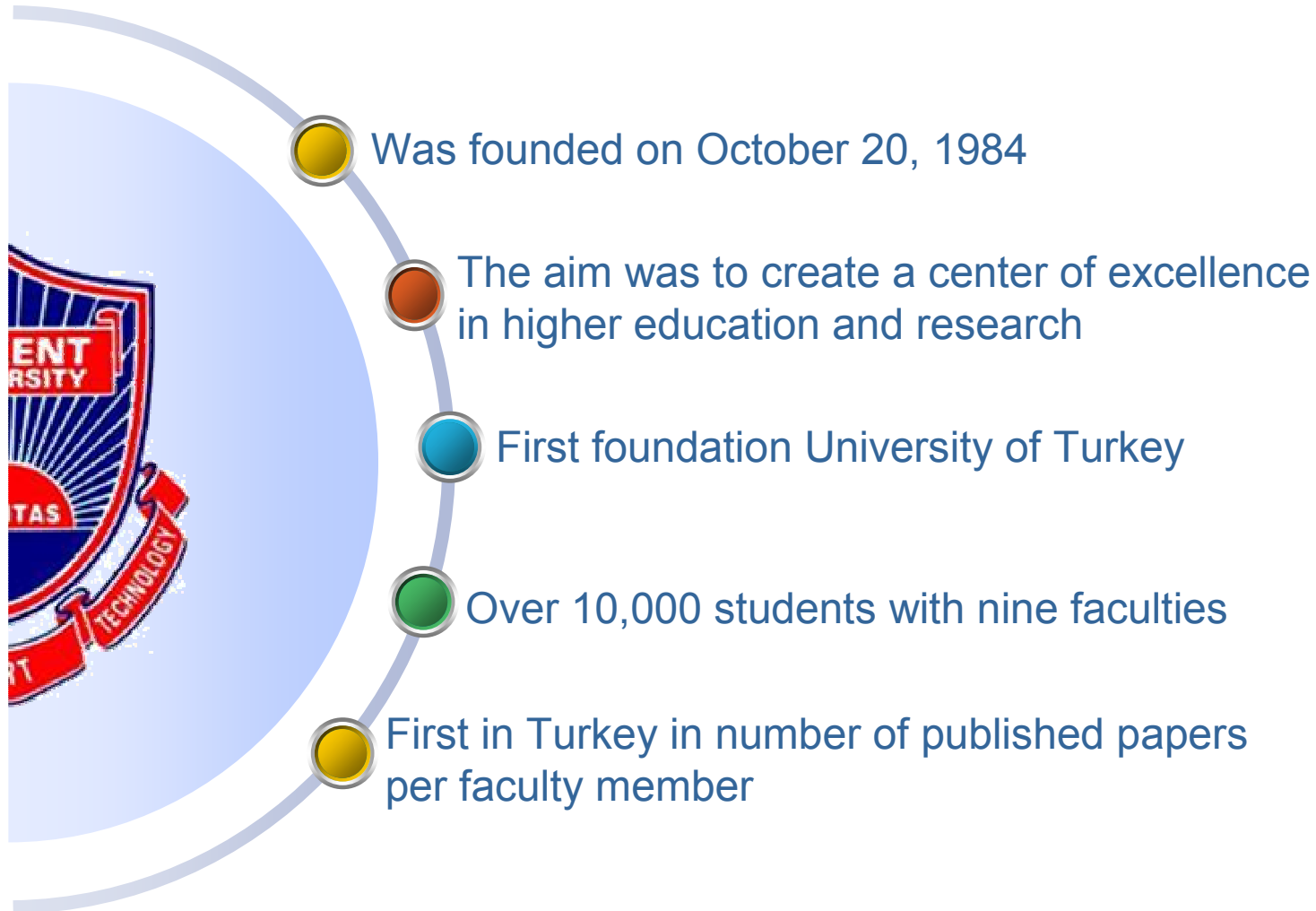
Company Presentation



COMMERCIAL IN CONFIDENCE







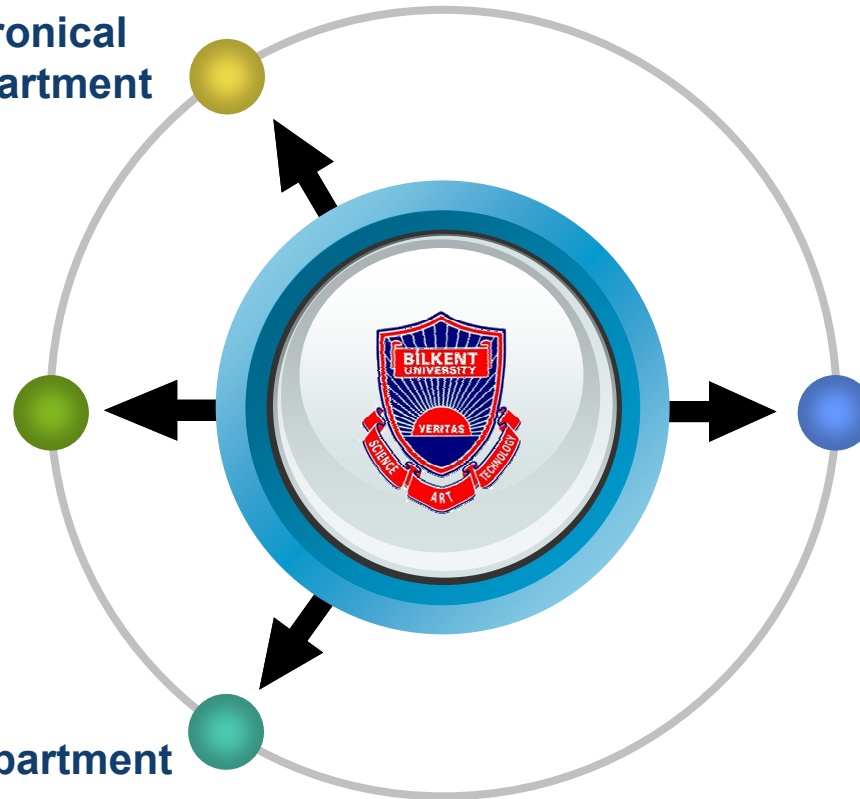
Cooperation with Bilkent University

A unique and leading University – Industry cooperation example is provided.

Electrical-Electrical
Engineering Department

Computer
Engineering
Department

Physics Department



Research Centers

Nanotechnology Research Center

Institute of Materials Science and Nanotechnology

Space Technology Research Center

Bilkent Center for Advanced Studies

Communications and Spectrum Management Research Center

Computational Electromagnetics Research Center

Genetics and Biotechnology Research and Development Center

Bilkent Center for Bioinformatics

Established in : April 2006

of Employees : 104

Facility : >2000 m²



OUR MISSION



To maximize Turkey's domestic added value in the defense industry field,
To become a leading defense industry company in Turkey through innovative and advanced high-tech solutions,
To be a reliable solution partner for both Turkish and foreign end users,
To export goods and services,
To establish close collaboration with worldwide renown multinational defense industry companies.

Our Targets

Fulfilling high-technology requirements of Turkish Armed Forces by the support of Bilkent University and other universities' academical and technological infrastructures and capabilities

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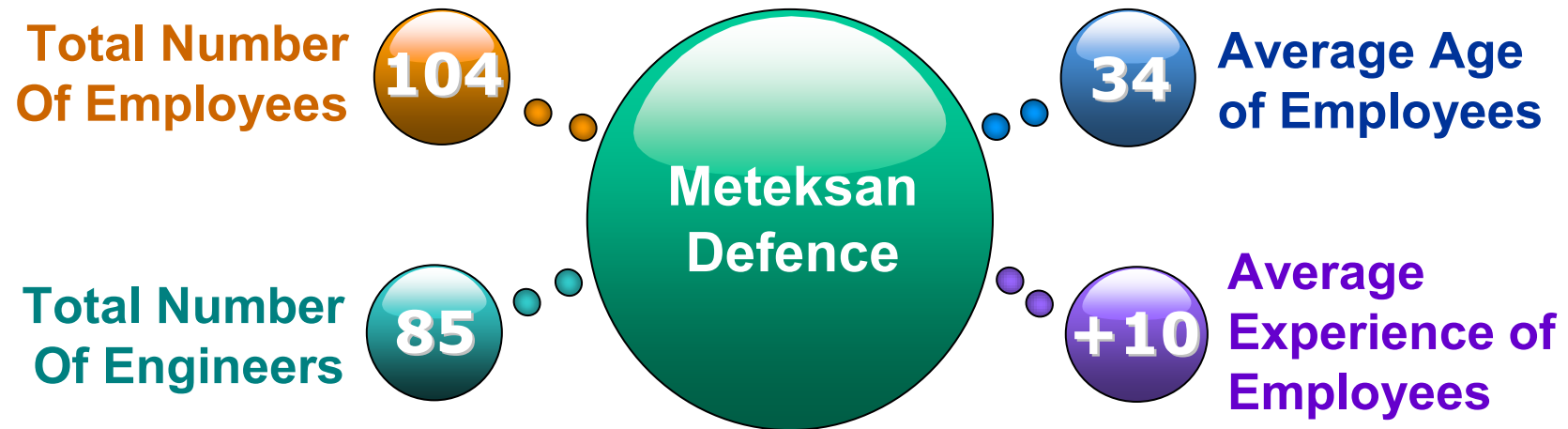
Creating an unique technological center by focusing on the areas that local companies / institutions have not been focused

focusing on the areas that local companies / institutions have not been focused

Becoming a technology center by giving highest importance to R&D studies and infrastructure investments

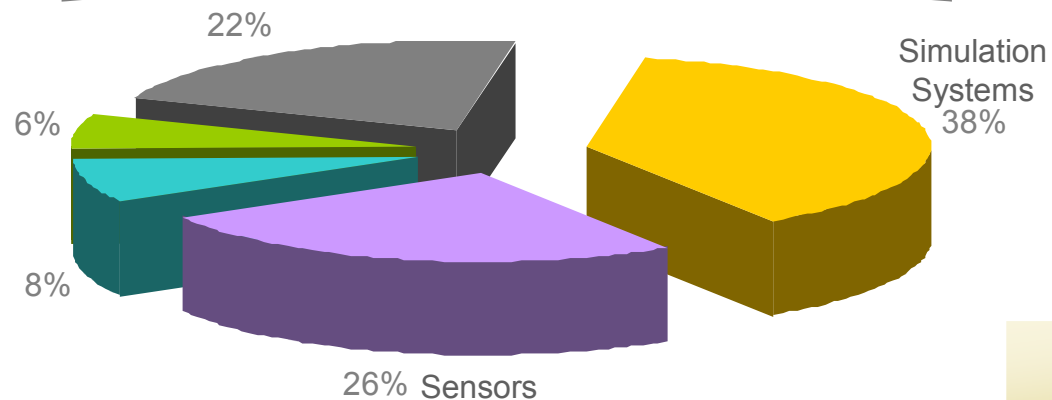
Becoming a preferable partner in international cooperation and **expanding foreign markets** with high technology products and services

Our Employee Structure

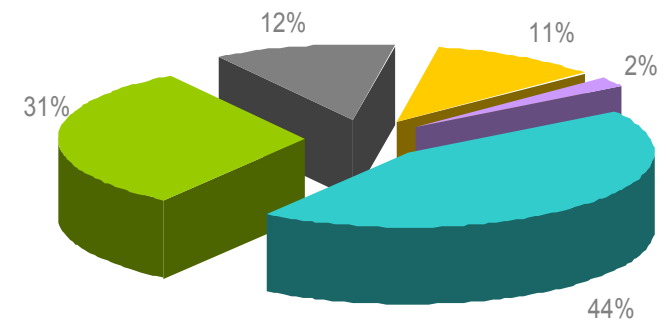


Our Employee Structure

Department-based



Graduation-based



Our Certificates



ISO 9001:2000



Facility Security Clearance



+ CMMI-3 (In the Renewal Stage)



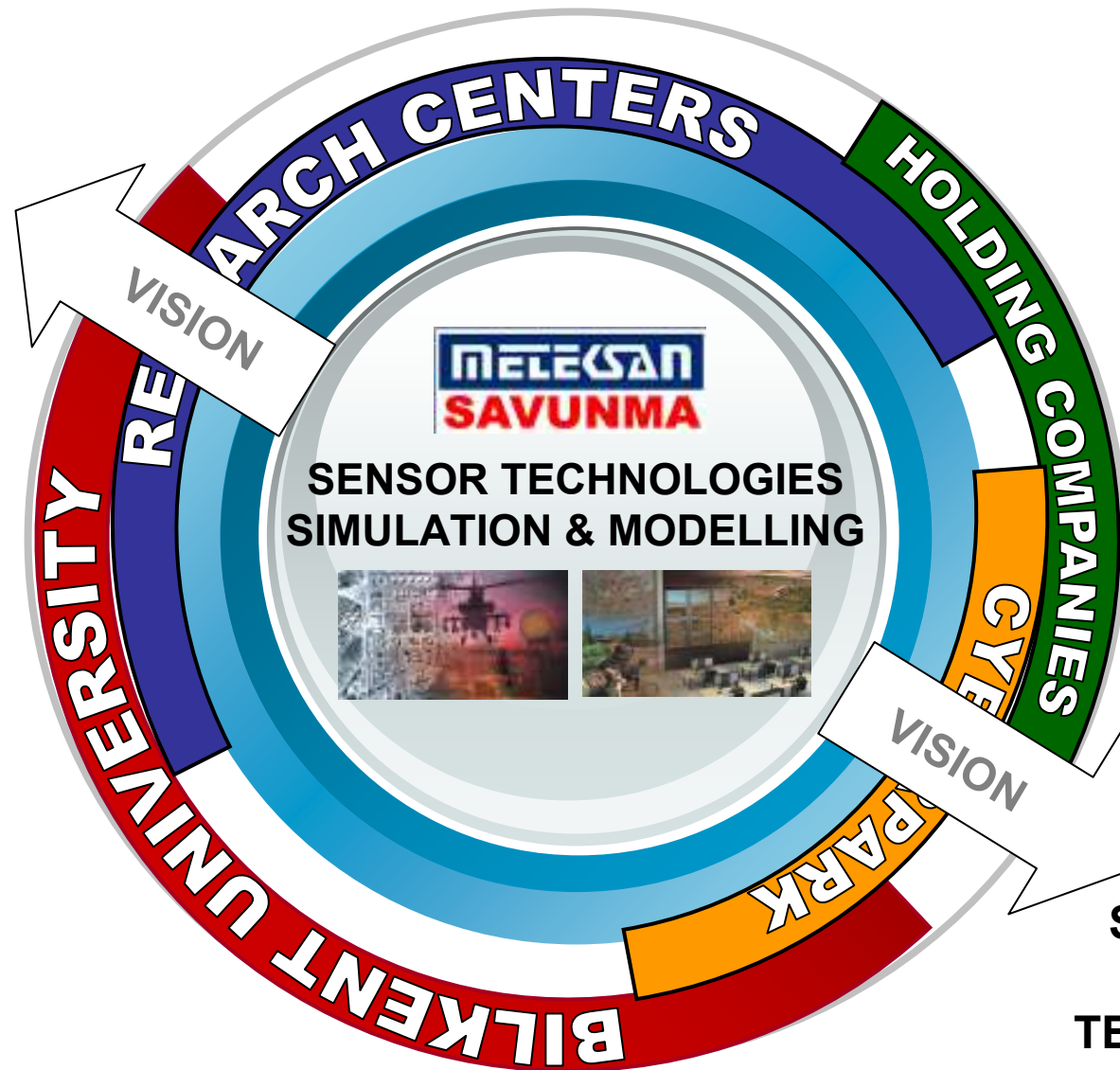
COMMERCIAL IN CONFIDENCE

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Our Activity Areas

MARINE PLATFORM SYSTEMS

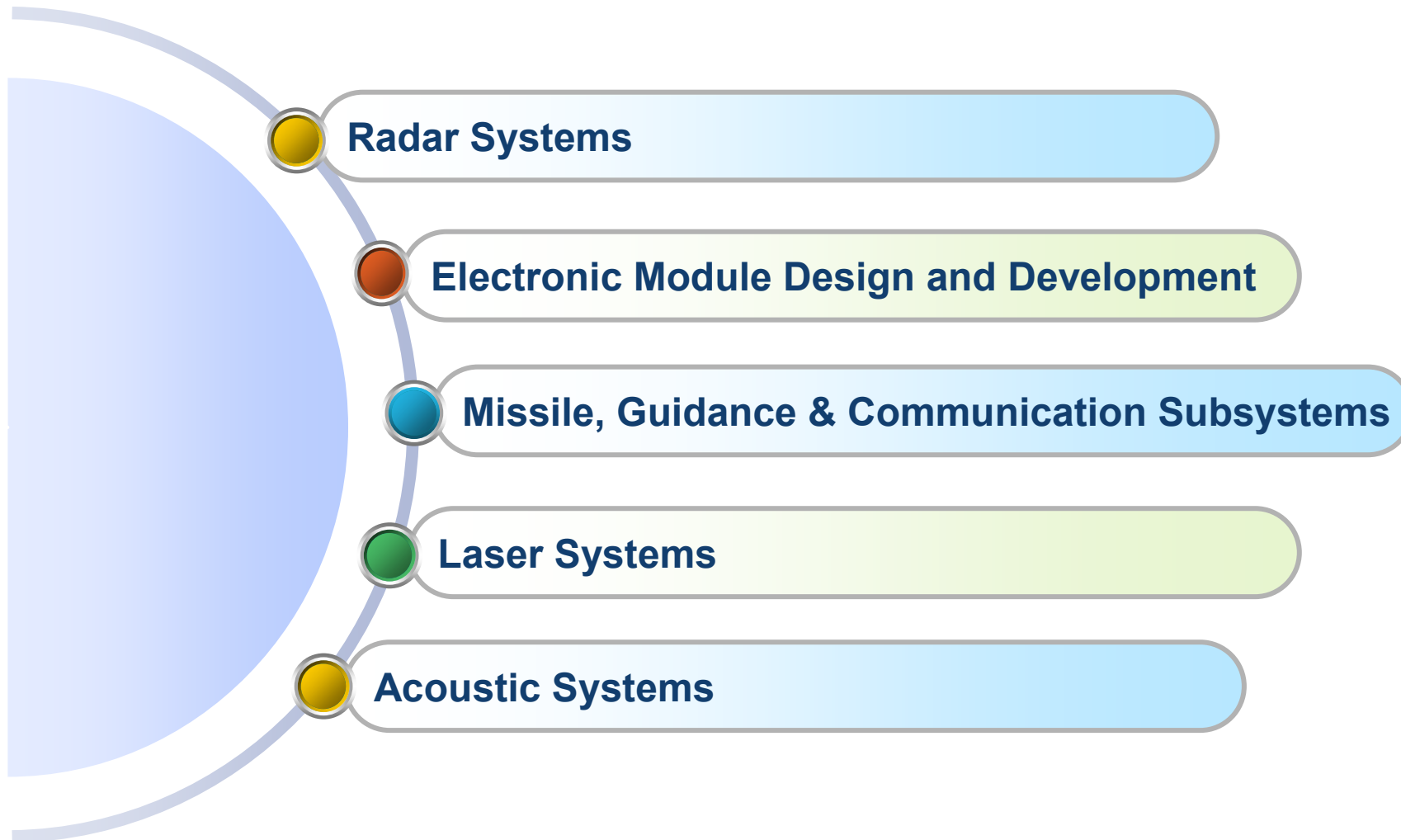


SATELLITE & SPACE TECHNOLOGIES



SENSOR TECHNOLOGIES





- RF, Microwave, Millimeter Wave Design: 0 - 40(100) GHz
- Antenna Design
- Signal Processing
- Radar Algorithms and Applications
- Data Communication Technics
- Embedded and Digital Systems
- Laser Applications
- Mechanical Design
- System Engineering



Sensor Technologies: Our Strengths

1

Experienced Technical Team

2

High-technology electronics laboratory (Worth of 7 Million USD and 15 years of occupancy)

3

R&D studies in unique areas

4

Support of Sensor Technologies Excellence Center Leader Bilkent University

5

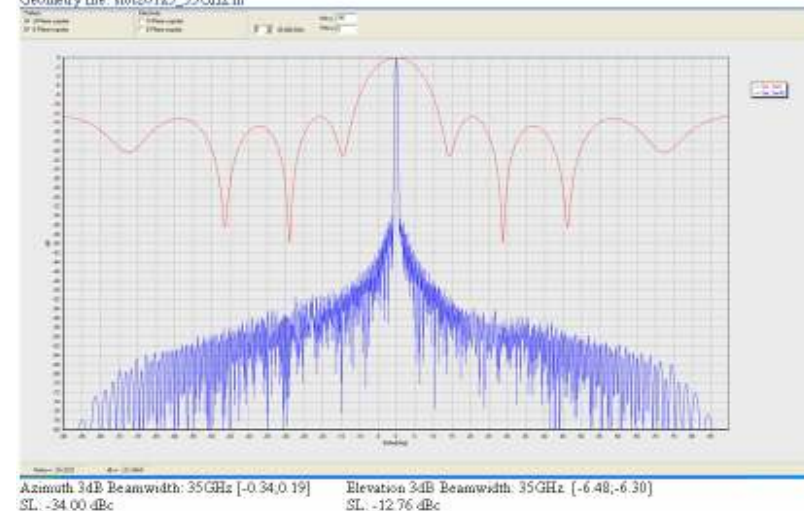
Focus on core technology subsystems and units

6

Agile and dynamic prototyping and product development

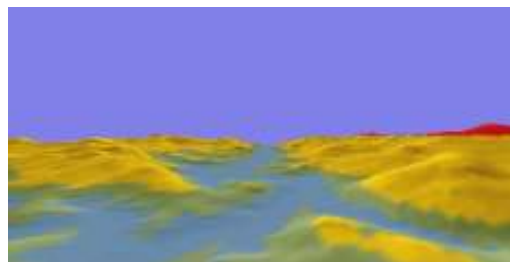
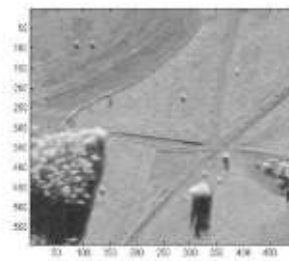


201x5 slot 35GHz antenna
Geometry file: slot201x5_35GHz.in



Development of Millimeter Wave Radar Techniques for Ground Target Engagement (MILDAR)

Project Owner	SSM / Land Forces Command
Project Description	Development of Millimeter Wave Radar techniques and a radar prototype for helicopter platforms
Project Price	25.506.292 YTL
Project Schedule	48 Months
Current Situation	Project started at 1 August 2007 and has accomplished its first year succesfully.



Development of Millimeter Wave Radar Techniques for Ground Target Engagement (MILDAR)

- 35 Ghz frequency,
- Safe flight in every air condition,
- Target recognition, target classification, missile engagement to the target and monitoring the profile of terrain altitude,
- Detects and identifies moving/fixed ground targets and moving air targets within the range of 8 km,
- Can be adapted to any platform easily,
- System's dimension and weight will provides safe navigation without exceeding the platforms payload capacity.

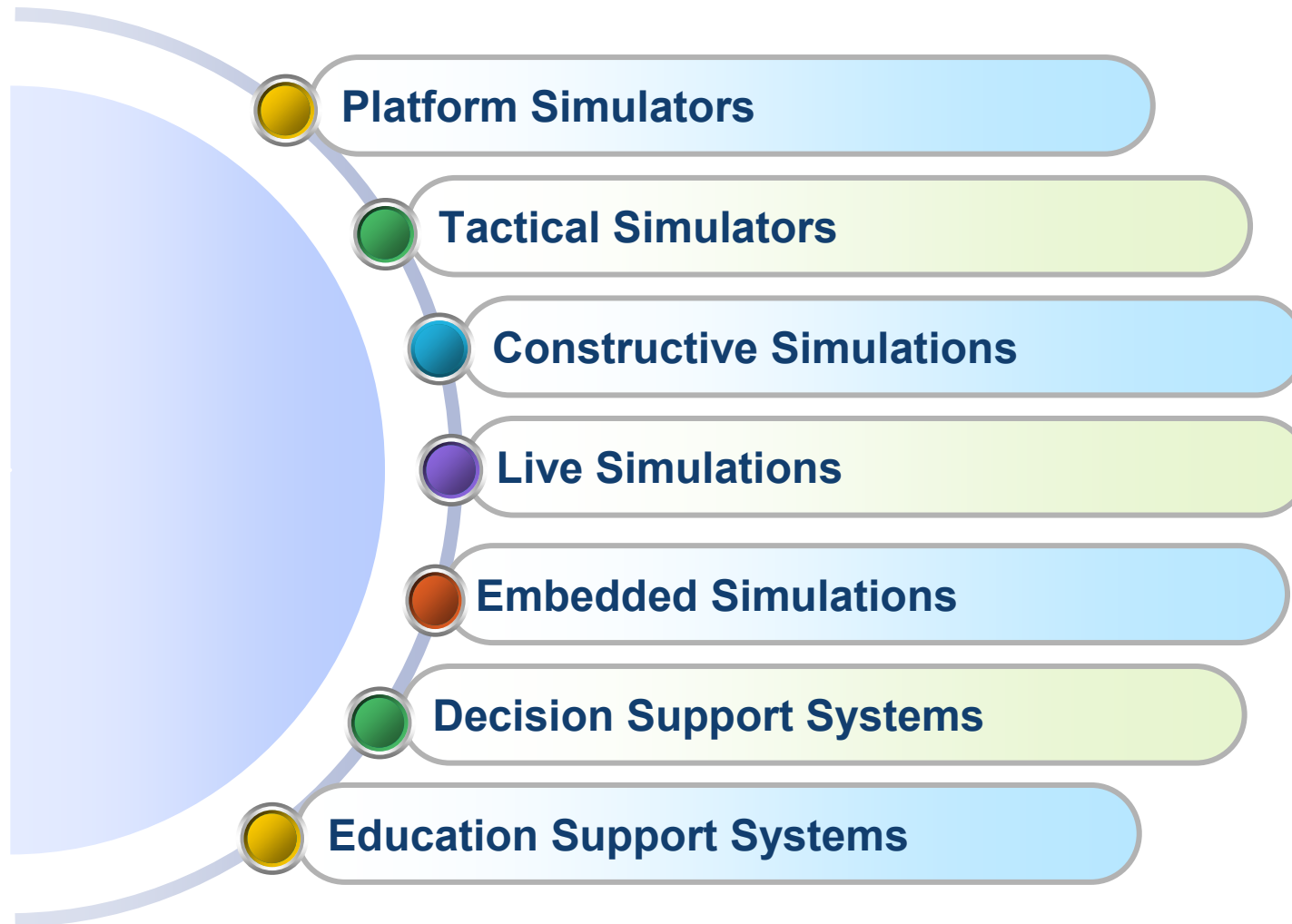
Features of MMWR:

- Pulse Doppler
- Synthetic Aperture Radar (SAR)
- Inverse Synthetic Aperture Radar (ISAR)
- Terrain Profiling



SIMULATION AND MODELLING





We Are Different!



**Visual Combat
Simulations**

Marine Platforms

Our Technical Capabilities

- Integration of Simulation / Simulator and Command Control Systems
- Modelling
- 3-D Visualization
- Generic Simulation Infrastructure
- Protocol Development
- Multi-layer Software Development
- Database and Interfaces
- Sound/Video/Data Transfer in High-speed

Simulation and Modelling: Our Strengths

1

Qualified Technical Team

2

Compatibility with IEEE/EIA 12207, MIL-STD 498, AQAP 160, ISO 9001, DO-178 B, ISO/IEC 15288, EIA 632 standards

3

Effective cooperation with universities

4

Development of innovative and unique products



Simulation and Modeling: Current Projects

Combat Training Center

Project Owner	Ministry of Defence / Land Forces Command – Meteksan Sistem
Project Description	Providing laser based field practice in troop level and simulating the battlefield simultaneously.
Project Price	22.000.000.- \$ +
Project Duration	24 + 4 Months (December 2008)
Current Situation	Project has been signed by Meteksan Sistem. Meteksan Defence continues working on the project as a subcontractor. Field integration will start soon.



Combat Training Center

The system provides realistic training to soldiers, through use of light, sound, smoke, and specially designed laser kits installed on the vehicles, weapons and infantry.

- Real time simulation with high degree of precision and realism,
- Wide variety of training accessories including gas masks and hand grenades,
- Command & Control Center (post-mission analysis),
- Special laser instruments,
- Interactive tools for the best training,
- Full scale enjoyment scenarios.



Simulation and Modeling: Current Projects

Naval Warfare Scenario Simulator

Project Owner	SSM / Naval Forces Command
Project Description	Computer aided warfare simulation comprising all the combanant components bounded to Naval Forces Command's inventory.
Project Price	9.084.439 YTL
Project Duration	42 Months
Current Situation	Project started at 15 June 2007 and has accomplished its first year succesfully.



Naval Warfare Scenario Simulator

An operative and tactical level computer based war simulation system for Turkish Navy Forces.

- Simulation system which will enable all personnel to perform their role in comand chain,
- Realistic combat enviroment,
- Basis for future military simulation projects,
- Compose the simulation knowledge basis for weapons, sensors, enviroment and underwater/surface/air platforms,
- Realistic and cost efficient training tool.



MARINE PLATFORM SYSTEMS





Marine Platform Projects (Partnership with a Shipyard)

Electronic Systems Design and Integration

Marine Platform Systems: Our Strengths

1

**Commitment and assurance
power of Bilkent Holding**

2

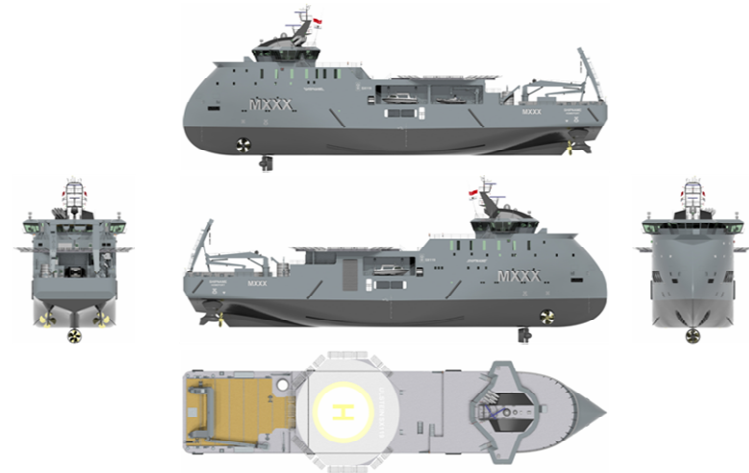
**Possibility of cooperation with
domestic and foreign shipyards**

3

Experienced team

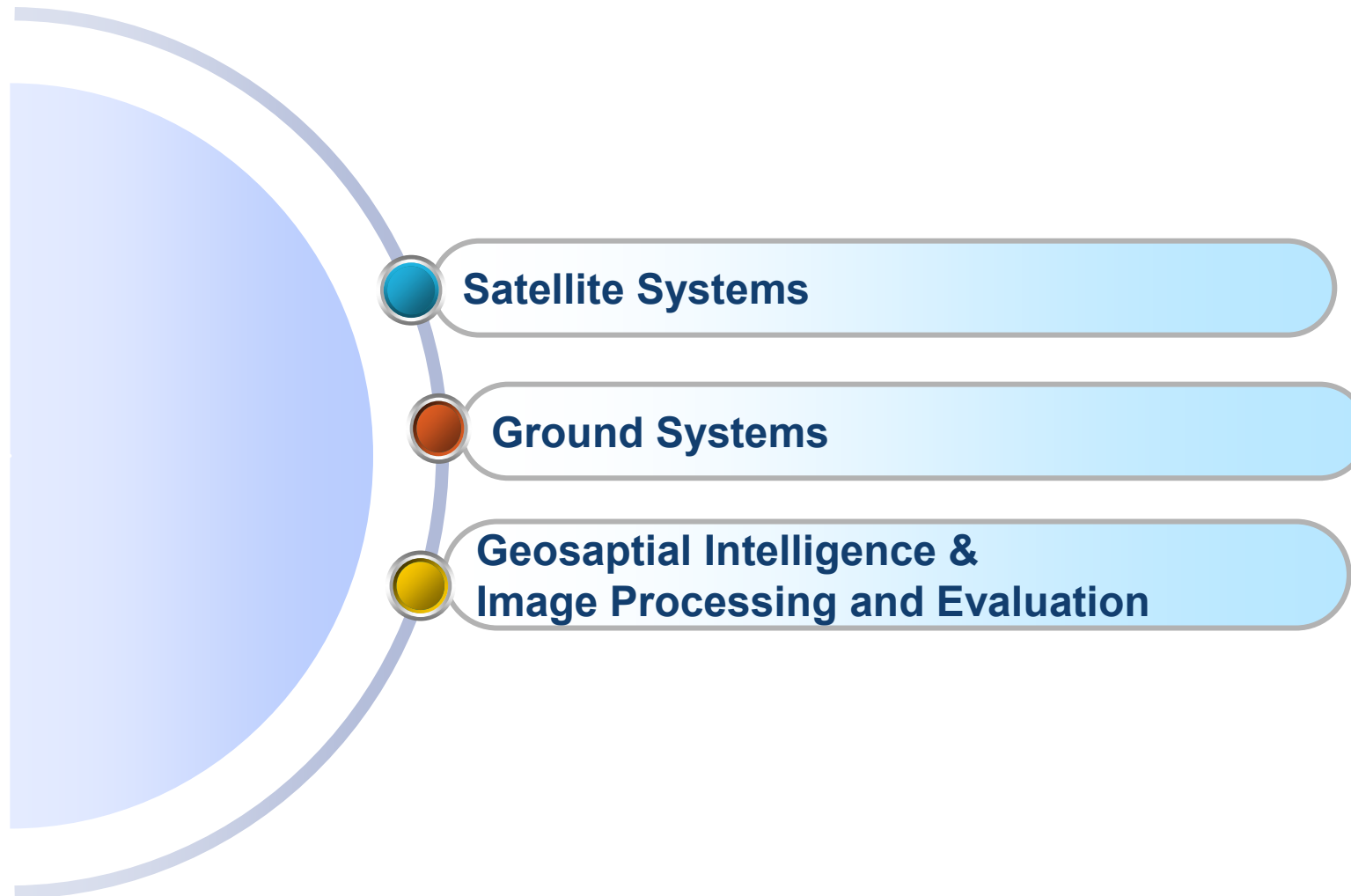
4

Focusing on auxiliary ships



SATELLITE AND SPACE TECHNOLOGIES





Satellite and Space Technologies : Our Strengths

1

Meteksan Space Technologies Inc.

2

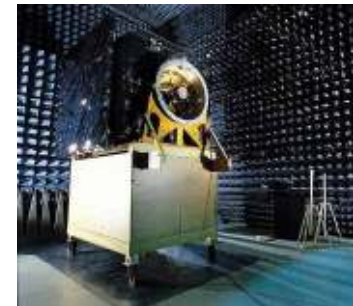
Bilkent University

3

R&D Capacity

4

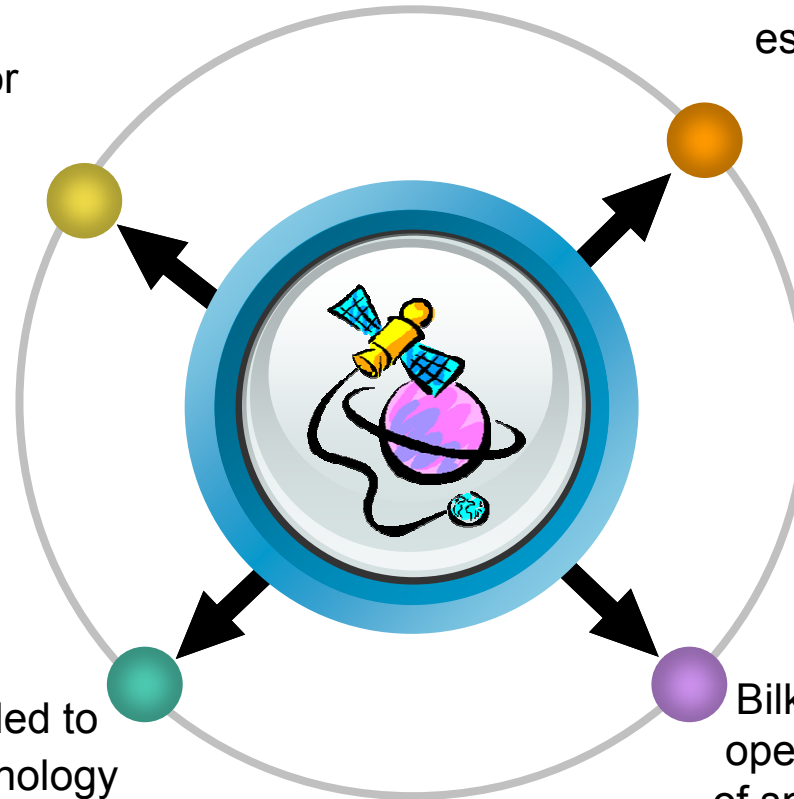
Expertise from the on-going projects



Our Infrastructure in Space Technologies Area

BilUzay- Bilkent University Space Technologies Research Center is established in October 2005 to perform studies for scientific research and development in space technologies field within Bilkent University.

Meteksan Space Technologies Inc. is established in August 2005 to perform commercial activities in Space technologies area and provide coordination in Bilkent Group.

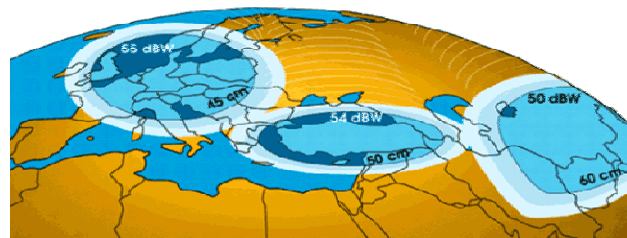


Bilkent Holding was decided to form **Cyberpark** as a technology center in space technologies area that the companies are performing R&D studies.

Bilkent University is decided to open some **courses** in the area of space technologies to educate engineers in Electric and Electronical Department.

Development of Functional EHF Satellite Transmitter and Test Environment

Project Owner	SSM
Project Discription	Development and production of fuctional satellite transmitter with antenna in EHF Band.
Project Price	~82.000.000 YTL
Project Duration	50 Months
Current Situation	Started in June 16, 2008 under Bilkent University and Aselsan coordination.



METEKSAN DEFENCE INDUSTRY INC.



Questions?

