



**PRESIDENCY OF THE REPUBLIC OF TÜRKİYE**  
**SECRETARIAT OF DEFENCE INDUSTRIES**



# MAIN ROLES / WHAT WE DO

DEVELOPMENT OF  
TURKISH DEFENCE INDUSTRY

MODERNIZATION OF TURKISH ARMED FORCES AND  
PROCUREMENT FOR  
GOVERNMENTAL ORGANIZATIONS





# SSB ORGANIZATION



**Recep Tayyip ERDOĞAN**  
PRESIDENT OF THE REPUBLIC OF  
TÜRKİYE



**Prof. Dr. Haluk GÖRGÜN**  
Secretary of Defence Industries

Office of Decision Support and  
Information Management  
Office of Subsidiaries Management  
Office of Press and Digital Media  
Office of Private Secretariat

Legal Department  
Internal Audit  
Department of International Cooperation



**Prof. Dr. Hakan KARATAŞ**  
Deputy Secretary of  
Corporate Development & Talent  
Management



**Mustafa M. ŞEKER**  
Deputy Secretary of  
Systems & Platform

- Personnel and Training
- Corporate Communication
- Administrative and Financial Affairs
- Defence Industry Academy
- Communications, Electronic and Information Systems
- EW and Radar Systems
- Land Platforms
- Naval Platforms



**Prof. Dr. İhsan KAYA**  
Deputy Secretary of  
Industrialization & Strategic Planning

- Strategy Development
- Industrialization
- R&D and Technology Management
- Quality Control Test and Certification



**Gökhan UÇAR**  
Deputy Secretary of  
Aviation Systems

- Unmanned and Smart Systems
- National Fighter Jet
- Engine and Power Transmission Systems
- Helicopters
- Aircrafts



**Hüseyin AVŞAR**  
Deputy Secretary of  
Strategic Systems

- Weapons and Ammunitions
- Air Defence and Missile Systems
- Operations Support
- Cyber Security and Information Systems



# LEGAL STRUCTURE

## Defence Industry Executive Committee



Recep Tayyip ERDOĞAN  
PRESIDENT



Cevdet YILMAZ  
Vice President



Mehmet ŞİMŞEK  
Minister of Treasury and  
Finance



Ali YERLİKAYA  
Minister of Interior



Yaşar GÜLER  
Minister of National  
Defence



M. Fatih KACIR  
Minister of Industry and  
Technology



Prof. Dr. Haluk GÖRGÜN  
Secretary of Defence  
Industries

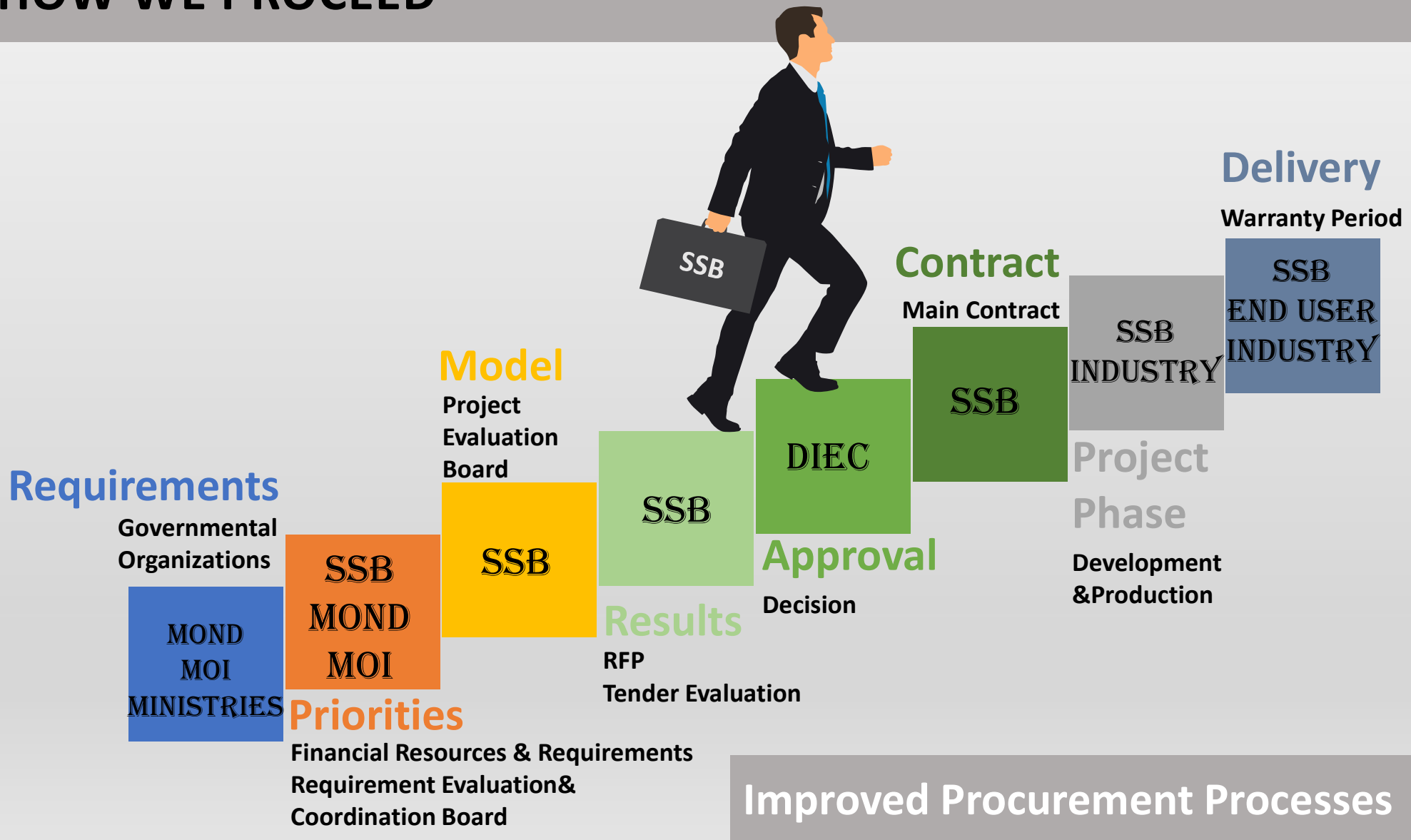


Gen. Metin GÜRAK  
Commander of  
Turkish Armed Forces

Defence Industry Support Fund (Off-national budget)



# HOW WE PROCEED



Improved Procurement Processes





# DEVELOPING DEFENCE ECOSYSTEM

## TURKISH ARMED FORCES FOUNDATION COMPANIES

- ASELSAN
- HAVELSAN
- ROKETSAN
- TUSAŞ
- İŞBİR
- ASPİLSAN

## THE SCIENTIFIC & TECHNOLOGICAL RESEARCH COUNCIL OF TÜRKİYE

- SAGE
- BİLGEM
- UZAY
- MAM

## PRIVATE COMPANIES & JOINT VENTURES

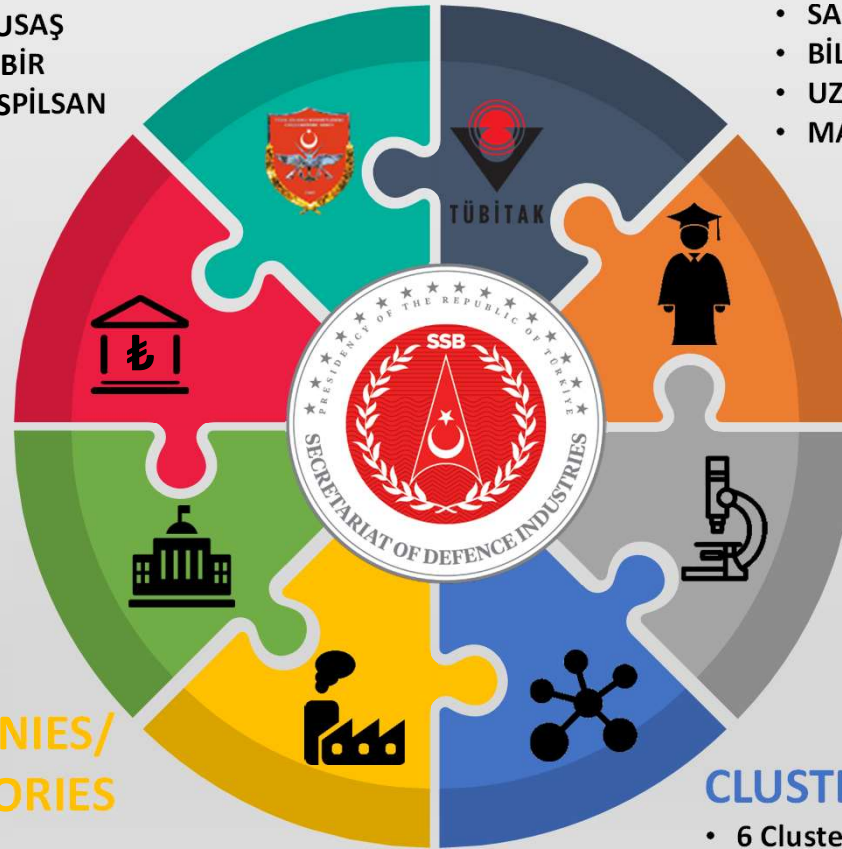
- 3500+ Companies
- 90000+ Employee
- 16 Joint Ventures

## SSB SUBSIDIARIES

- SSTEK COMPANIES
- TRTEST
- HEAŞ
- HAB

## GOVERNMENT COMPANIES/ MILITARY FACTORIES

- MKE A.Ş.
- ASFAT A.Ş.
- 27 Military Factories
- 4 Shipyards



## UNIVERSITIES

- 203 Universities in Total
- 130 Public Universities
- 73 Private Universities

## TECHNOPARKS AND R&D CENTERS

- 83 Technoparks composed of 120 Defence Companies
- 1100+ R&D Centers

## CLUSTERS

- 6 Clusters in İstanbul, Ankara (2), Bursa, İzmir and Eskişehir

Defence Industry Leader of Türkiye





# SSB KEY FACTS



## DIRECT PROCUREMENT

- AB-412
- COBRA AH-1 W HELICOPTER
- MLRS



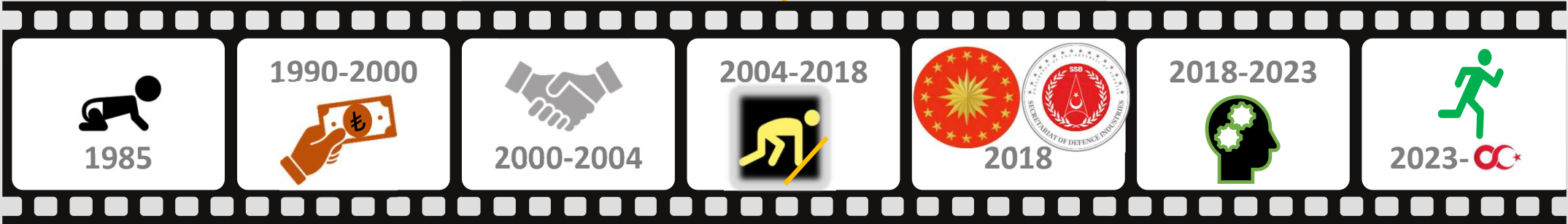
## INDIGENOUS DESIGN LOCAL PRODUCTION

- ALTAY
- ANKA
- BAYRAKTAR TB2
- MILGEM
- HÜRKUŞ



## ADVANCED TECHNOLOGIES

- ARTIFICIAL INTELLIGENCE
- AUTONOMOUS TECHNOLOGY
- CYBER SECURITY



**SSM**  
Undersecretariat for Defence Industries (SSM) was founded in 1985 with Law No. 3238



**CO-PRODUCTION, INTERNATIONAL CONSORTIUM**

- A400 M
- ARMoured COMBAT VEHICLE
- COUGAR HELICOPTER



SSM, as a Legal Entity, was affiliated to the President of the Republic of Türkiye and renamed as Secretariat of Defence Industries (SSB) in July 2018.



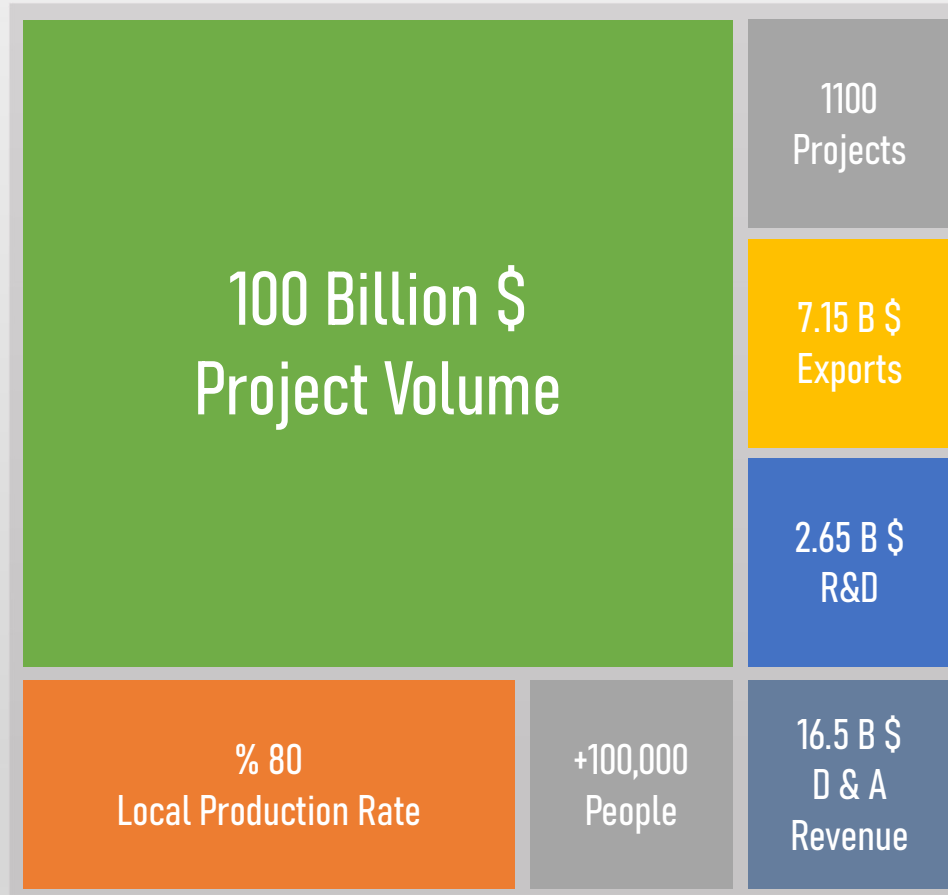
TO BE CONTINUED...

40 Years of Experience in Defence Industry...





# SSB KEY FACTS



Turkish Defence Industry Performance in 2024







# Türkiye's Autonomous and Unmanned Naval Projects

Özlem SAYIN

Director of Auxiliary Ships and Unmanned Marine Systems Procurement Projects





## Türkiye's Autonomous and Unmanned Naval Projects

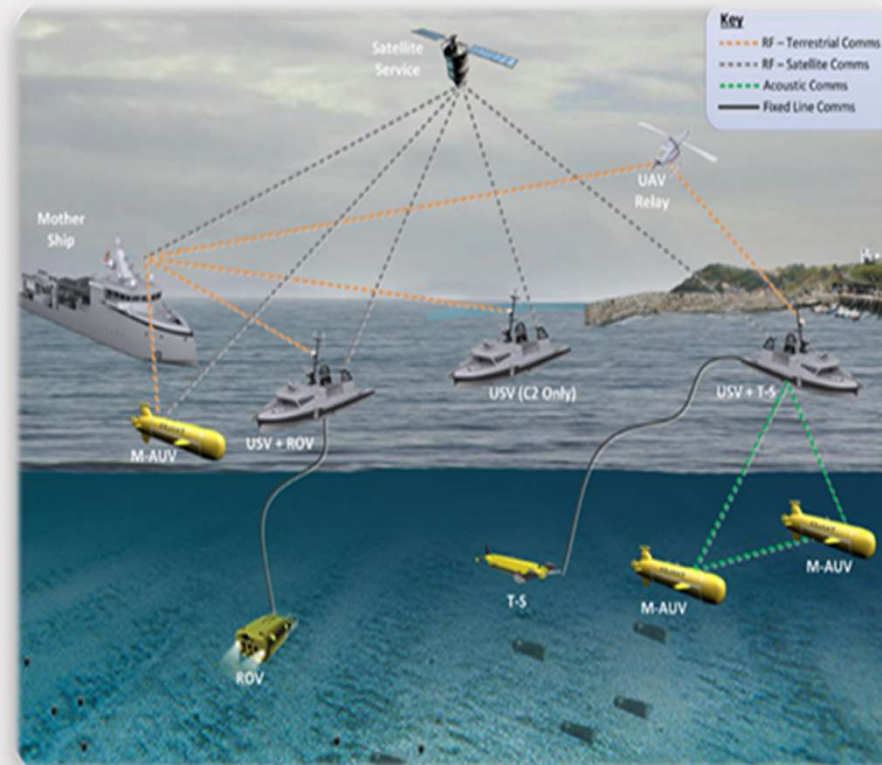
Türkiye's  
Geopolitics





## Why Unmanned and Autonomous Systems?

1. The changing nature of naval warfare
2. Turkey's strategic goals



Picture Source: Sea Naval Solutions









## Multi-Domain Mission Flexibility

Intelligence, Surveillance, and Reconnaissance (ISR)

Anti-Surface Warfare (ASuW)

Electronic Warfare (Including ESM, EA)

Mine Countermeasure (MCM) Operations

Anti-Submarine Warfare

Kamikaze Missions

Search and Rescue (SAR)

Patrol Station

Communication Relay

## Swarm Operations

Persistent Presence in High-Risk Areas

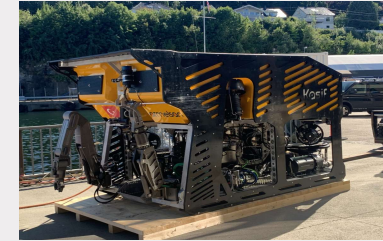
Humanitarian and Environmental Missions





## KEY EXAMPLES OF TURKISH USVs, ROVs AND AUVs

- MARLIN USV
- ULAQ USV
- SANCAR USV
- SALVO USV
- MİR USV
- ALBATROS
- ULAQ KAMA
- KASIF ROV
- DERİNGÖZ AUV
- STM NETA AUV







## MARLIN Unmanned Surface Vehicle (USV)

• **Contractor:** SEFİNE Shipyard & ASELSAN

• **Capabilities:**

- Anti Surface Warfare
- Anti Submarine Warfare
- Electronic Warfare
- Armed with guided missiles, ISR capabilities and autonomous navigation

• **Unique Feature:** High modularity—can integrate additional payloads for mission-specific tasks—used as monohull or trimaran





## ULAQ Unmanned Surface Vessel (USV)

- **Contractor:** ARES Shipyard & METEKSAN Defense
- **Capabilities:**
  - Anti Surface Warfare
  - Anti Submarine Warfare
  - Armed with guided missiles, ISR capabilities, and autonomous navigation.

**Unique Feature:** High modularity—can integrate additional payloads for mission-specific tasks





## SANCAR Unmanned Surface Vehicle (USV)

•**Contractor:** YONCA Shipyard & HAVELSAN

•**Capabilities:**

- Mine countermeasures (MCM), seabed mapping.
- Real-time decision-making and navigation in complex underwater environments.
- Armed with guided missiles and ISR capabilities

•**Unique Feature:** High modularity—can integrate additional payloads for mission-specific tasks







## SALVO Unmanned Surface Vehicle (USV)

- **Contractor:** Dearsan Shipyard
- **Capabilities:**
  - Armed with guided missiles and ISR capabilities
  - Anti Surface Warfare (ASUW)
  - UAV Operations.
- **Unique Feature:** High modularity—can integrate additional payloads for mission-specific tasks





## NEW PROJECTS

### USVs

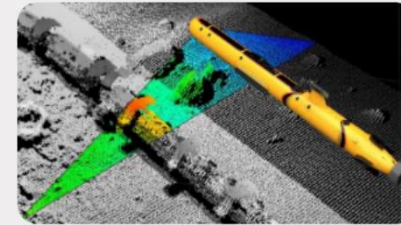
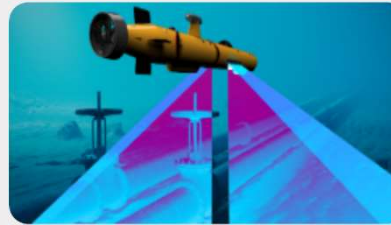
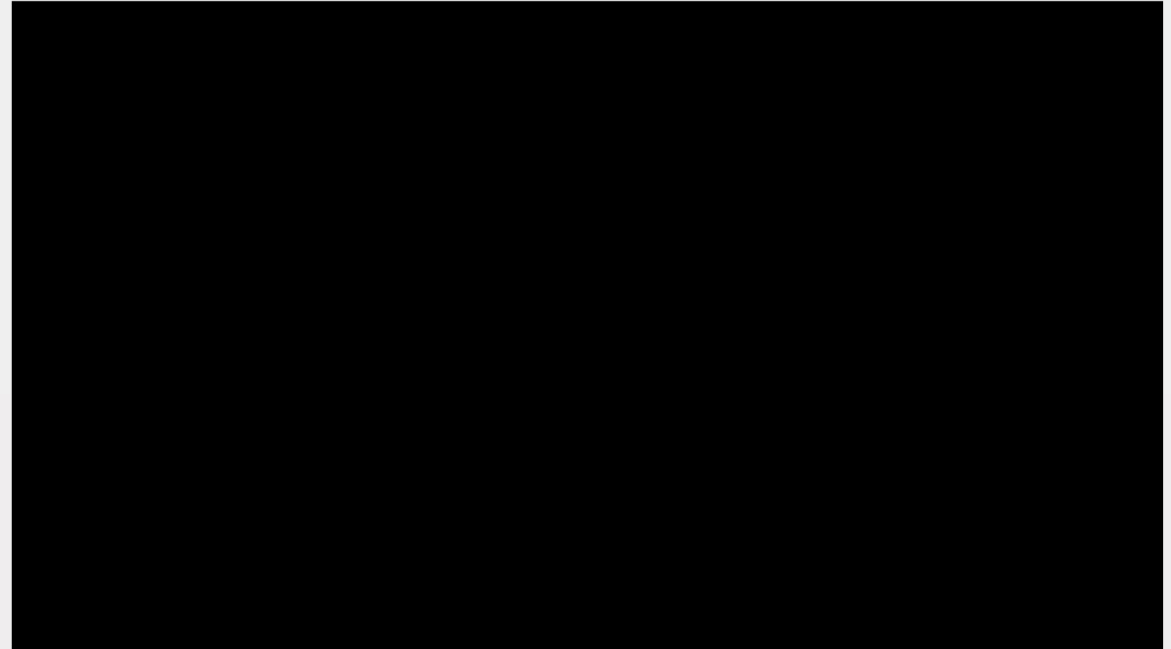
- Serial production phase for Navy and indigenous production for new customers
- Exports

### AUVs

- Intelligence,, Surveillance, Reconnaissance
- Mine Countermeasures
- Anti-Submarine Warfare
- Port Defense
- Seabed and Environmental Assessment
- Pipelines, F/O Cables Inspection and Observation
- Geophysical Research and Observation

### XLUUVs

- Design phase





## Technological Advancements

### 1. Artificial Intelligence (AI)

- ✓ Core Role in Autonomy

### 2. Sensor Technologies

- ✓ Fusion of Multi-Sensor Data

### 3. Communication Systems

- ✓ Secure Communication
- ✓ Swarm Networking

### 4. Modular Payload Design

- ✓ Customizable Configurations

### 5. Cyber Security, C5ISR & Space







## Strategic Impact

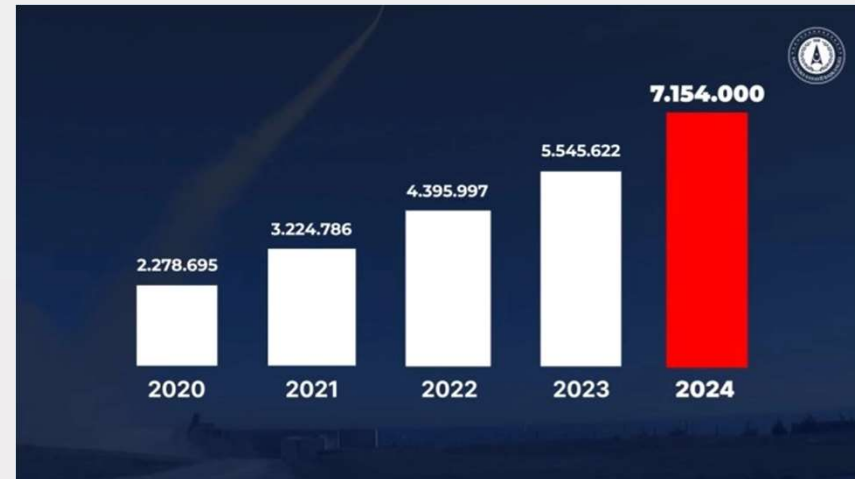
How these projects align with Türkiye's defense goals?

How these projects enhance Türkiye's naval capabilities and their role in regional security?





- High performance-high tech proven products
- Cost-effective solutions
- Modular and Indigenous Production Capabilities
- Collaboration with Allies





## Future Directions for Turkish Naval Projects:

Manned systems will stay the backbone for navy

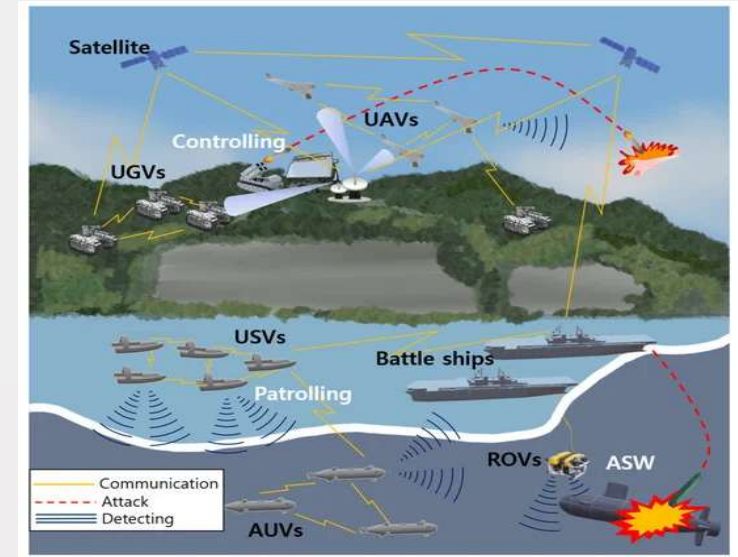
Unmanned systems:

- will undertake the dangerous and critical tasks that conventional ships have to undertake,
- will undertake relatively more routine tasks, allowing manned platforms to be assigned to tasks that require more critical decisions,
- will provide support to submarines, surface fleets and combat ships in their primary tasks when necessary,

Reflecting the advances in artificial intelligence technologies to our projects

Improving image and data libraries further

Implementing new communication solutions in our projects and improving existing applications



Source: MDPI.com



DANKON FAAFETAI LAVA VINAKA TAU NAJIS TUKE  
Cam On Ban DANKIE SOBODI BARKA GRACIE akun Merce NANDRI MATONDO  
Kia Ora SALAMAT Rahmat Welalin MISAOTRA BARKA MESI ENKOSI grazzi  
Vinaka MERCI SPASIBO Mamana BEDANKT MESI Asante Maake  
Obrigado MERCI Kiitos ASANTE MESI Matondo Chokrane

Thank You

BEDANKT DANKE MULTUMESC Gracias Ago MAMANA DZIEKUJE  
SUKRIYA Diolch MATONDO Vielen Dank VINAKA MANANA MIRROR  
SOBODI KIITOS MESI Kia Ora SULPAY Terima Kasih  
RAHMET TAKK Welalin MATONDO SAĞOLUN NIRRINGRAZZJAK  
VINAKA Dank Je Ua Tsaug Rau Koj MESI Kiitos THANK YOU  
Mochchakkarem vinaka TAU WELALIN Kia Ora Chokrane