SPACE SYSTEMS PRODUCTION IN KAZAKHSTAN
PRODUCTION CAPACITY DEVELOPMENT

2009-2014
Engineer training programs
- KazEOSat-1
- KazEOSat-2
- Airbus (Intespace) AITC

2014-2018
First steps
- KazSTSat
- KazSciSat
- National AITC & Production facilities

2018-2023
Components & sub-systems
- On-board computer
- Power supply system
- Ground station
- On-board software
- Harness, mech. parts

2023-2030
Status & Plans
- KazEOSat-MR / 23-26
- KazSTSat-2 / 23-25
- KazEOSat-HR / 25-27
- KazSAT-3R / 25-29
- KazEOSat-VHR / 27-30

© Ghalam – This document can not be reproduced, copied or communicated to third parties without written authorization
Assembly, Integration and Testing (AIT) facility:

- Assembly hall for spacecraft with a mass up to 3600 kg
- Testing and manufacturing workstations
- Certified and qualified personnel

Certified by Airbus Defence & Space
KazEOSat - MR

MEDIUM RESOLUTION EARTH OBSERVATION SATELLITE CONSTELLATION

Major objectives
- Application in the agricultural sector, environmental monitoring, natural resources, etc.

Constellation capacities
- Imaging productivity: 1,400,000+ km²/day
- AOI revisit time: 1+ time per day

MR satellite parameters
- Resolution GSD: 2 m
- Spectral bands: 11 + SWIR
- Swath width: ~44 km (nadir)

Project Timeline - 2023-2026

© Ghalam – This document can not be reproduced, copied or communicated to third parties without written authorization
HIGH RESOLUTION EARTH OBSERVATION SATELLITE CONSTELLATION

Major objectives
- Application in land use, design and construction of engineering structures, exploration of mineral wealth, creation of topographic maps

Constellation capacity
- Imaging productivity: 600,000 km\(^2\)/day
- AOI revisit time: 1+ time per day

HR satellite parameters
- Resolution GSD: 0.7 m
- Spectral bands: 5
- Swath width: ~12 km (nadir)

Project Timeline: 2025 - 2027
TELECOMMUNICATION SPACE SYSTEM REPLACEMENT PROJECT

Major objectives

• Replacement of current Telecommunication space systems (KazSAT-2 and KazSAT-3)

Minor objectives

• Transfer of telecommunication Space system technologies
• Utilization of National AIT facilities

Project timeline: 2025 - 2029
GHALAM INVITES YOU TO UNITE FOR THE REALIZATION OF COMMON GOALS