

SAMMBA high-level presentation



This project has received funding from the European Union's H2020 research and innovation programme under grant agreement No 870451

Outline of the presentation





Overview of the SAMMBA project



- The SAMMBA project aims to develop generic and modular launch services that can be used by various Spaceports and Launch Operators for small launch vehicles in the NewSpace ecosystem.
 - SAMMBA services will enable high launch cadencies of several MLVs while reducing operational costs.
 - SAMMBA services will enable a shorter **time-to-market** for spaceport and microlauncher deployment.
- The SAMMBA project started in January 2020 for a duration of 3 years.



	The SAMMBA consortium	
gtd	GTD System and Software Engineering (ESP) $$	
Air Liquide	Air Liquide Advanced Technology (FRA) ——————	
Centre Tecnològic de Catalunya	EURECAT (ESP)	
	SpaceTec Partners (BEL)	
CT Engineering DRIVEN PEOPLE	CT Ingénierie (FRA)	
	MT Aerospace (GER) —————————————————————	



This project has received funding from the European Union's H2020 research and innovation programme under grant agreement No 870451

S**≜**MMBA

SAMMBA offers flexible, standard and modular solutions adapted to NewSpace needs



SAMMBA systems are modular and interoperable



SAMMBA's plug & play and scalability features enables a shorter overall launch campaign



- A typical launch campaign can start while another one is ongoing, but the second launch sequence will not be able to start before the ground equipment is reconditioned
- SAMMBA systems and services are designed to have a maximum reconditioning time of 2 weeks
- A launchpad made out of SAMMBA systems will be compatible with **several launchers**, the time it takes to go from one configuration to another one is **1 day**



This shorter time frame can be traded for lower costs or higher performance

launch campaign process



- Case 1: Shortest time frame ($\Delta \tau = \Delta t$)
 - SAMMBA-induced time reduction is used to the fullest extent
 - Personnel costs are kept at the same level
- Case 2: Lowest costs ($\Delta \tau = \Delta \in$)
 - SAMMBA-induced time reduction is traded vs. **lower labour intensity**
 - Personnel costs are reduced accordingly
- Case 3: Highest performance/reliability ($\Delta \tau = \Delta \eta$)
 - SAMMBA-induced time reduction is utilised to perform extra checks and tests
 - Personnel costs are kept at the same level



In essence, SAMMBA provides a number of strategic advantages to spaceports



SAMMBA

Thank you

Visit us for more information!



https://sammba.eu/



https://www.linkedin.com/company/sammba-h2020/



This project has received funding from the European Union's H2020 research and innovation programme under grant agreement No 870451