



estec

European Space Research
and Technology Centre
Keplerlaan 1
2201 AZ Noordwijk
The Netherlands
T +31 (0)71 565 6565
F +31 (0)71 565 6040
www.esa.int

Horizon 2020 ESA Activity Status Report- All workplans

1 ACTIVITY STATUS TABLE

WP ID	RTD ID	Description	End date	Status
WP15	H001	Enhanced Passive Hydrogen Maser (PHM) Framework	Q2 2021	In Procurement
WP15	H002	Robust RAFS and On-Board Clock Ensemble (RRAFS/ONCLE) Framework	Q2 2020	In Procurement
WP15	H003	Self-Compensating Device	Q4 2020	On-Going
WP15	H004.01	S-Band Advanced Transponder (TAS-E)	Q1 2020	On-Going
WP15	H004.02	S-Band Advanced Transponder (TESAT)	Q3 2020	On-Going
WP15	H006	Attitude Control Sensor	Q1 2020	On-Going
WP15	H007	Multipactor Prediction Techniques for GNSS Signals	Q3 2021	On-Going
WP15	H008	G2G Test User Receiver Technologies Framework	Q2 2021	On-Going
WP15	H009	High Power Amplifiers Technology	Q4 2020	On-Going
WP15	H010 WO1	High Power RF Passive Technology Framework - Combiner	Q2 2021	On-Going
WP15	H010 WO2	High Power RF Passive Technology Framework - Isolator	Q4 2020	On-Going
WP15	H011	Flexible Payload and Signal Generation Technology Framework	Q1 2020	On-Going
WP15	H013.01	Inter-Satellite Links Technology - TASE	Q1 2020	On-Going
WP15	H013.02	Inter-Satellite Links Technology - ADS	Q1 2020	On-Going
WP15	H015	GNSS Ground Reference Station Transversal Technologies Framework	Q1 2021	In Procurement
WP15	H016	EGNOS Test User Receiver Technologies	Q1 2020	On-Going
WP15	H018.01	GNSS ODTS Algorithm Technology - DEIMOS	Q1 2020	On-Going
WP15	H018.02	GNSS ODTS Algorithm Technology - GMV	Q3 2019	On-Going
WP15	H019	EGNOS Signal Distorsion Technology	Q1 2020	On-Going
WP15	H039	Advanced CMCU EQM	Q1 2021	On-Going

WP ID	RTD ID	Description	End date	Status
WP15	H040	G2G Test User Receiver Breadboard	Q2 2022	In Procurement
WP16	H020 WO1.01	GNSS Evolutions System Phase B G2G -General System Engineering	Q3 2019	On-Going
WP16	H020 WO1.02	GNSS Evolutions System Phase B G2G -General System Engineering	Q3 2019	On-Going
WP16	H020 WO2	GNSS Evolutions System Phase B G2G - G2G Signal-in-Space and Performance Engineering	Q3 2019	On-Going
WP16	H020 WO3	GNSS Evolutions System Phase B G2G - G2G System Security and PRS Engineering	Q3 2019	On-Going
WP16	H021.01	GNSS Evolutions Space Segment Phase B	Q3 2018	Completed
WP16	H021.02	GNSS Evolutions Space Segment Phase B	Q3 2018	Completed
WP16	H021.03	GNSS Evolutions Space Segment Phase B	Q3 2019	On-Going
WP16	H022.01	GNSS Evolutions Ground Segment Phase B	Q1 2019	Completed
WP16	H022.02	GNSS Evolutions Ground Segment Phase B	Q1 2019	Completed
WP16	H022.03	GNSS Evolutions Ground Segment Phase B	Q1 2019	Completed
WP16	H022.04	GNSS Evolutions Ground Segment Phase B	Q1 2019	Completed
WP17	H024	S-Band Advanced Transponder	Q1 2021	In Procurement
WP17	H026	Inter-Satellite Link EQM	Q1 2022	Planned
WP17	H027	C-Band Advanced Receiver	Q4 2021	Planned
WP17	H028	S-Band Advanced Ground Modem	Q1 2021	In Procurement
WP17	H029	G2G Satellite and Payload Test Bed	Q1 2022	In Procurement
WP17	H030	G2G End to End System Modelling Tool & Experimentation	Q4 2021	In Procurement
WP17	H031	Advanced ODTS Algorithms Test Platform & Experimentation	Q3 2021	Planned
WP17	H032	G2G Constellation Mission Analysis Tool (G2-CMAT)	Q1 2022	Planned
WP17	H033	G2G RF Constellation Simulator (RFCS)	Q3 2021	In Procurement

WP ID	RTD ID	Description	End date	Status
WP17	H035	Assessment of system improvements aligned to new EGNOS Mission needs	Q3 2021	In Procurement
WP17	H036	Feasibility analysis of ARAIM ISM generation by EGNOS	Q4 2020	In Procurement
WP17	H037	Evil Waveform and Ionospheric Characterization Monitoring Network	Q1 2022	In Procurement
WP17	H038	GNSS Evolutions Science Activities – Call for Ideas	Q2 2021	In Procurement
WP18	H020	GNSS Evolutions System Phase B - contracts extension	Q1 2020	In Procurement
WP18	H022.01	GNSS Evolutions Ground Segment Phase B activities	Q1 2021	On-Going
WP18	H022.02	GNSS Evolutions Ground Segment Phase B activities	Q1 2021	On-Going
WP18	H022.03	GNSS Evolutions Ground Segment Phase B activities	Q1 2021	In Procurement
WP18	H022.04	GNSS Evolutions Ground Segment Phase B activities	Q1 2021	On-Going
WP19	H020	GNSS Evolutions System Phase Bo/B1 Framework	Q1 2021	Planned
WP19	H041	Multi-purpose on-board digital generative processor including SAR evolution	Q3 2020	Planned
WP19	H042	GNSS Satellite Laser Ranging Station	Q4 2020	Planned
WP19	H015	GNSS Ground Reference Station Transversal Technologies Framework	Q3 2021	Planned
WP19	H043	ULS advanced station	Q4 2020	Planned
WP19	H044	EGNOS Evolutions System Engineering	Q4 2020	Planned
WP19	H045	EGNOS technology - NLES	Q1 2021	Planned

Notes:

- **Status:**
 - Planned = No ITT release yet.
 - In Procurement = ITT has been released but no KO yet.
 - On-Going = KO done.
 - Completed = Activity Technically Concluded.
- **End Date:** Corresponds to the planned completion date of the activity.