
PORTUGUESE SPACE PLAYERS PROFILES



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT

ORGANIZERS:



PARTNERS:



SUPPORTERS:



AICEP - TRADE AND INVESTMENT AGENCY

Maria Manuel Branco

maria.manuel.branco@portugalglobal.pt

Director/Economic and Commercial Counsellor – Brussels Office

Carla Tavares

carla.tavares@portugalglobal.pt

Aeronautics and Space – Lisbon Office

H2020 PORTUGAL OFFICE

FCT / ANI - National Innovation Agency

João Romana

joao.romana@gppq.pt

H2020 Space NCP

Ana Sutcliffe

ana.sutcliffe@gppq.pt

H2020 Space NCP

ESA SPACE OFFICE - PORTUGAL

FCT / ANI - National Innovation Agency

Luís Serina

luis.serina@fct.pt

Head of Space Office

ENTERPRISE EUROPE NETWORK - PORTUGAL

Rita Silva

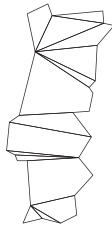
rsilva@aninov.pt

ANI – National Innovation Agency

Luísa Bernardes

luisa.bernardes@cec.org.pt

CEC- Chamber of Industry and Commerce of Centro Region



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Active Space Technologies S.A.

Ricardo Patricio
ricardo.patricio@activespacetech.com
CEO

ENTITY PROFILE

Country

Portugal

Web (Url)

www.activespacetech.com

Organisation type

Company (SME)

Organisation size

26-50

Organisation description

Electro-mechanical systems for space, aeronautics, and industry

Cooperation profile

Power control, Megaconstellations, additive manufacturing, space weather

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

PEGASUS

Title

Flight Qualification of Deployable Radiator using two phase

technology

Programme

H2020

URL

<http://pegasus-dpr.eu/>

SLOGAN

Title

Space Qualification of High-power SSPA based on GaN technology

Programme

FP7

URL

<http://www.fp7-slogan.eu/>

PEASSS

Title

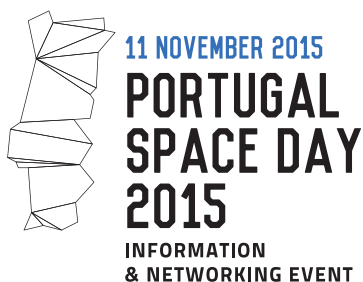
PEASSS in Space – PiezoElectric Assisted Smart Satellite

Programme

FP7

URL

<https://www.tno.nl/en/focus-area/industry/space-scientific-instrumentation/mission-critical-components/peasss-in-space-piezoelectric-assisted-smart-satellite/>



<http://www.trueshotgolf.com/>

SWAIR

Title

Space weather impact on GNSS service for Air Navigation

Programme

NEW: ESA Small ARTES

URL

<http://space.ipn.pt/>



Bluecover Technologies Lda

Nuno Duro

nduro@bluecover.pt

CEO

ENTITY PROFILE

Country

Portugal

Web (Url)

www.evoleotech.com

Organisation type

Company (SME)

Organisation size

1-10

Organisation description

Bluecover Technologies

Cooperation profile

EGNSS and Earth Observation applications

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS

golfracker

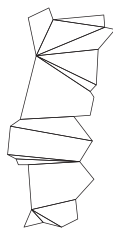
Title

Automatic tracking of golf games for improvement and training purposes, using GNSS receivers, wearable sensors and Earth Observation information

Programme

H2020

URL



11 NOVEMBER 2015
**PORTUGAL
SPACE DAY
2015**
INFORMATION
& NETWORKING EVENT



C -MAST, Centre for Aerospace and Mechanical Science and Technologies, University of Beira Interior

Anna Guerman / Tessaleno Devezas

anna@ubi.pt

Associate Professor

ENTITY PROFILE

Country

Portugal

Web (Url)

www.aerospace.ubi.pt

Organisation type

University

Organisation size

51-250

Organisation description

The Centre for Mechanical and Aerospace Science and Technologies (C-MAST) develops research activities, organized in two research groups: 1) AeroMaS - Aerospace Materials and Structures; 2) EnerMeF - Energy and Mechanics of Fluids.

AeroMaS performs research on materials and structures for aerospace with several applications for other purposes. The research lines are:

- Space Structures
- Trends in Space Systems
- Nanotechnologies Applied to the Hybrid Composites
- Composite Structures Monitoring with Optical Sensors
- Recycling and Reutilization of Industrial Waste
- Materials Usage EnerMeF develops research

in computational fluid dynamics, heat transfer, energy technology forecasting, and optimization of energy systems focusing on

- Technology Forecasting and Optimization of Energy Usage
- Heat Transfer Energy Losses in Systems
- Aerospace Propulsion Systems and Aerodynamics
- Computational Models for Rheology and Magnetohydrodynamics / Plasma Actuators

Cooperation profile

The space-related cooperation activities are:

- Space structures, Attitude and orbital control systems, Formation Flying
- Trends in space systems, Technological forecasting for aerospace.
- Nanotechnologies applied to the hybrid composites, ceramic materials for applications in severe service conditions, e.g., shells /reentry protective coatings.
- Composite structures monitoring with optical sensors
- Aerospace propulsion systems and aerodynamics, Magnetoplasma dynamic thrusters, e.g.,
- MPD thrusters with power higher than 100kw
- Computational models for Magnetohydrodynamics, Modelling of plasma flows around re-entry vehicles
- Heat transfer energy losses in systems

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-3-2016: Evolution of Copernicus services

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies

COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

ACHEON

Title

Aerial Coanda High Efficiency Orienting-jet Nozzle

Programme

FP7

URL

<http://acheon.eu/>

CROP

Title

Cycloidal Rotors Optimized for Propulsion

Programme

FP7

URL

<http://www.crop-project.eu/nl/01/newsletter.html>

MAAT

Title

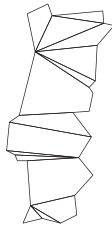
Multibody Advanced Airship for Transport

Programme

FP7

URL

<http://www.eumaat.info/>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



CCTAE – Center for Aeronautical and Space Science and Technology

Luis Manuel Braga da Costa Campos

luis.campos@ist.utl.pt

Professor

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://tecnico.ulisboa.pt/en/>

Organisation type

University

Organisation size

+250

Organisation description

CCTAE (Center for Aeronautical and Space Science and Research) has been active in 45 projects, including 25 EU and ESA funded projects since 1980, 10 books (7 by international publishers) since 1988, 140 papers in 80 refereed journals since 1978, and reviewing for 40 specialized journals since 1982. The main areas of interest related to H2020 Space are:

<http://tecnico.ulisboa.pt/en/research/>

Cooperation profile

1 – Satellite navigation for traffic management and collision avoidance: We can calculate trajectories with a given very low probability of collision based on the accuracy of the position data for vehicles; example ICAO Target Level of Safety of probability of collision less than $5E-9$ per hour for aircraft. 2– Rocket trajectories in the atmosphere and space including lift effects for winged vehicles; example two-point boundary-value problems specifying the orbital condition to be reached from a given launch state: indication of feasibility and optimization. 3 – Aerothermodynamics: Flow at sustained hypersonic around vehicles with heat exchange with the structure.; example calculation of heat flux, surrounding flow parameters and thermal stresses

in the structure. 4 – Magnetohydrodynamics and ionic propulsion; example steady and unsteady ionized flows in external magnetic fields, particle trajectories and interactions. 5 – Solar-terrestrial physics: unsteady flows and magnetic fields in the solar arising from expansion of the solar corona and magnetic events like flares and coronal mass ejections. 6 – Solar and stellar astrophysics: physical properties related to observations of the atmospheres of the sun and other magnetic and/or rotating stars and relation to internal structure. We are open to other suggestions.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-3-2016: Evolution of Copernicus services

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies

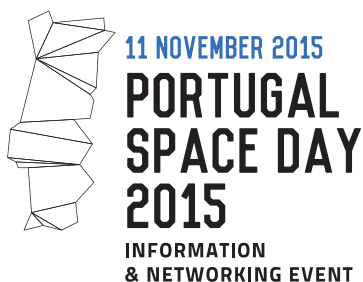
COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications



CITEUC - Research Centre for Earth and Space of University of Coimbra

Teresa Barata
mtbarata@gmail.com
Assistant Professor

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://geofisico.dyndns.org/>

Organisation type

University

Organisation size

26-50

Organisation description

We are a Portuguese center dedicated to research about the Solar System as a whole and at all scales. This translates to strongly interdisciplinary regards over the Sun, Venus, Earth, Mars, Titan, and smaller bodies. We are a medium-dimension team with training in geophysics, geology, physics, mathematics, astronomy and astrophysics, organized in two complementary research groups: Earth Dynamics: focuses on the Earth's inner structure and processes therein, crustal evolution and Earth's history Solar System Sciences: focuses on Solar Physics, celestial mechanics, small bodies, and planetary geology.

Cooperation profile

The strategic objective of CITEUC is the development of a laboratory (SPINLAB - Space Monitoring and Forecasting - Planetary Interactions Laboratory) to monitoring, predict and mitigate the effects of Space Weather on different social and economic fields, based solar and magnetic data acquired daily by OGAUC. We are housed at the Geophysical and Astronomical Observatory of Coimbra University (OGAUC).

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-2-2016: Downstream services for public authorities

Competitiveness of European Space Science and Technology

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-4-2017: Scientific data exploitation,

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

DtC**Title**

Discover the Cosmos

Programme

FP7

URL

<http://www.discoverthecosmos.eu/>

PTTI - Space Weather**Title**

Solar Risk Service for Air Navigation and Oil & Gas

Programme

ESA

URL

http://ptti.ipn.pt/news_items/43

CG4**Title**

Collaboratory for Geosciences

Programme

FCT

URL

<http://segal.ubi.pt/C4G/>

MAGIC/MARTE**Title**

Mars Atmospheric, Geologic and Exobiologic Classification

Programme

FCT

CAMEL**Title**

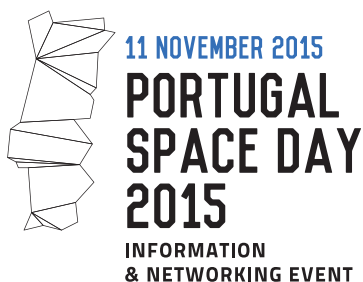
Caracterização e Classificação de Campos de Dunas em Marte Baseada em Análogos Terrestres

Programme

FCT

URL

<http://www.mat.uc.pt/camel/>



Critical Software S.A.

Paulo Guedes

pguedes@criticalsoftware.com

Business Development Director

ENTITY PROFILE

Country

Portugal

Web (Url)

www.criticalsoftware.com

Organisation type

Company (Large)

Organisation size

+250

Organisation description

With a reputation for delivering 'best-in-class' solutions to high-profile customers in the space industry, CRITICAL Software has provided software services and products for mission-critical subsystems and interfaces since 1998.

Cooperation profile

N/A

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-5-2016: Scientific Instrumentation

COMPET-2-2017: Competitiveness in Earth observation mission technologies

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO-4-2017: EGNSS awareness raising and capacity building

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

Exomars TGO

Title

Exomars TGO Onboard Software

Programme

ESA

SOLO

Title

Solar Orbiter Onboard Software

Programme

ESA

Sentinel-3

Title

Sentinel-3 Onboard Software

Programme

ESA

Sentinel-2

Title

Sentinel-2 Onboard Software

Programme

ESA

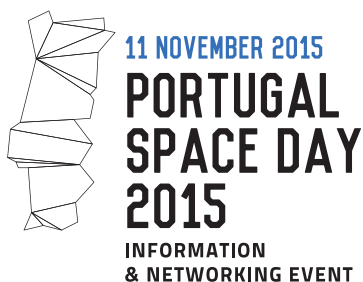
Sentinel-1

Title

Sentinel-1 Independent Software Verification & Validation

Programme

ESA



DEIMOS Engenharia S.A.

Pedro Freire da Silva
pedro.silva@deimos.com.pt
Business Unit Director

ENTITY PROFILE

Country

Portugal

Web (Url)

www.deimos.com.pt

Organisation type

Company (Large)

Organisation size

26-50

Organisation description

DEIMOS Engenharia is an aerospace systems engineering company performing R&D, engineering, product development and applications of space technologies on space missions and downstream sectors.

Cooperation profile

Aerospace Engineering active in all ESA main programs including Earth Observation, GNSS and GNC domains - GNC, GNSS, Earth Observation, Galileo, Receivers, GNSS-Reflectometry, PRS

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-2-2016: Maturing satellite communication technologies

COMPET-3-2016-a: SRC - In-Space electrical propulsion and station keeping - Incremental Technologies

COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-4-2017: Scientific data exploitation

COMPET-7-2017: Technology transfer and business

generators

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

ENCORE

Title

Enhanced Galileo Code Receiver for Land Management in Brazil

Programme

FP7

URL

<http://www.encoreproject.org/>

COREGAL

Title

Combined Positioning-Reflectometry Galileo Code Receiver for Forest Management

Programme

H2020

URL

<http://coregalproject.com>

LunarGNSS

Title

Lunar GNSS

Programme

ESA

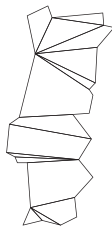
GNSSSGEO

Title

Feasibility Study for GNSS in GEO and Highly Elliptic Orbits

Programme

ESA



11 NOVEMBER 2015
**PORTUGAL
SPACE DAY
2015**
INFORMATION
& NETWORKING EVENT



DEIMOS Engenharia S.A.

Nuno Avila Martins
nuno.avila@deimos.com.pt
General Manager

ENTITY PROFILE

Country

Portugal

Web (Url)

www.deimos.pt

Organisation type

Company (SME)

Organisation size

26-50

Organisation description

DEIMOS Engenharia is an aerospace systems engineering company performing R&D, engineering, product development and applications of space technologies on space missions and downstream sectors.

Cooperation profile

Interest in collaborating with lead users. Technology enablers. R&D institutions. Large scale integrators

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-2-2017: Competitiveness in Earth observation

mission technologies

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications,

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO-4-2017: EGNSS awareness raising and capacity building

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

ENCORE

Title

Enhanced Code Galileo Receiver for Land Management in Brazil

Programme

FP7

URL

<http://www.gsa.europa.eu/enhanced-code-galileo-receiver-land-management-brazil>

SENSYF

Title

Sentinel Synergy Framework

Programme

FP7

URL

<http://www.sensyf.eu/>

COREGAL

Title

GNSS-RELECTOMETRY FOR SENSING THE EARTH

Programme

H2020

URL

<http://www.coregalproject.com/>

E-GEM

Title

Earth Observation with GNSS Reflections

Programme

FP7

URL

<http://www.e-gem.eu>

CoRECYFE

Title

COASTAL WATERS RESEARCH SYNERGY FRAMEWORK

Programme

H2020

mapKITE

Title

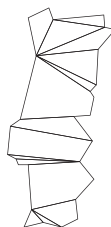
EGNOS-GPS/Galileo-based high-resolution terrestrial-aerial sensing system

Programme

H2020

URL

<http://www.mapkite.com>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Edisoft S.A. – a Thales Group Company

Tiago Sepúlveda

tiago.sepulveda@edisoft.pt

Aeronautics & Space Department manager

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.Edisoft.pt>

Organisation type

Company (Large)

Organisation size

51-250

Organisation description

Edisoft is a company with 25 years of experience in the Defence & Security and Aeronautics & Space areas

Cooperation profile

New generation of Earth Observation services and tools

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-3-2016: Evolution of Copernicus services

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-6-2017: Space portal

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

SEABILLA

Title

Sea Border Surveillance

Programme

FP7

URL

<http://www.seabilla.eu/cms/>

MYOCEAN2

Title

Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service

Programme

FP7

URL

<http://marine.copernicus.eu/>

DOLPHIN

Title

Development of pre-operational services for highly innovative maritime surveillance capabilities

Programme

FP7

URL

<http://www.gmes-dolphin.eu/>

MARISS

Title

MARitime Security Service

Programme

ESA

URL

N/A

SEA-U

Title

Multisensor Satellite Technologies for Oil Pollution Monitoring and Source Identification

Programme

FP7

URL

<http://seau.ksat.no/>

EDRS

Title

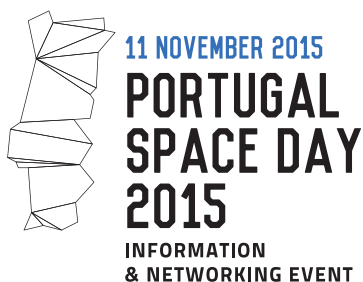
European Data Relay System

Programme

ESA

URL

http://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/EDRS



EFACEC – Engenharia e Sistemas, S.A.

João Costa Pinto
jcpinto@efacec.com
Director

ENTITY PROFILE

Country

Portugal

Web (Url)

www.efacec.com

Organisation type

Company (Large)

Organisation size

+250

Organisation description

The activity of EFACEC Electric Mobility, SA is divided in 4 segments: 1) Battery charging systems for electric vehicles, where EFACEC designs, purchases components, manufactures, tests and installs the necessary infrastructure to allow 100% electric vehicles to charge their batteries. 2) Power converters for renewable energies, where EFACEC designs, purchases components, manufactures, tests and installs power electronics converters for solar or wind farms. 3) Battery chargers and industrial uninterruptible power supplies (UPS), where EFACEC designs, purchases components, manufactures, tests and installs power electronics converters for telecommunication facilities, or power and traction rectifier substations. 4) Instruments for SPACE, where EFACEC designs, purchases components, manufactures, tests, qualifies and supports integration in satellite electronic units as well as supports the collection and processing of data from space instruments.

Cooperation profile

EFACEC develops, manufactures and tests electronics for spacecrafts.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping - Disruptive

GALILEO/EGNOS

GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

EuTEMP**Title**

Temperature recording unit for the ISS Columbus EuTEF external platform

Programme

ESA

URL

http://www.efacec.pt/PresentationLayer/efacec_press_01.aspx?idioma=2&area=1&id=125

AEEF**Title**

Alphasat TDP8

Programme

ESA

URL

http://www.efacec.pt/PresentationLayer/efacec_press_01.aspx?idioma=2&area=1&id=463

GaNSAT**Title**

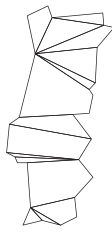
GaN Powered Ka band transmitter receiver

Programme

FP7

URL

<http://evoleotech.com/gansat/>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Eixo Digital Lda

João Fonte-Santa

joao.santa@eixodigital.com

Managing Director

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.eixodigital.com>

Organisation type

Company (SME)

Organisation size

1-10

Organisation description

Eixo Digital is an IT company specializing in mission-critical, high-availability, bespoke software development and big data projects in the field of: - Satellite Communications; - Telemetry and Geographical Referencing; - Maritime Safety;

Cooperation profile

Maritime Safety Solutions, Telemetry and Geographical Referencing, Earth Observation

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS

MSDS

Title

Maritime Safety Data Services

Programme

ESA

URL

<http://www.inmarsat.com/news/new-safety-service-fleetbroadband/>

IRIS PRECURSOR

Title

IRIS PRECURSOR SERVICE DEVELOPMENT

Programme

ESA

URL

<https://artes.esa.int/projects/iris-precursor>

MCEP

Title

Launching the Maritime Copernicus Enablement Platform

Programme

H2020

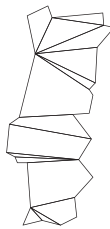
DTS

Title

Dynamic Telemetry Services

Programme

ESA



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



EVOLEO Technologies Lda

Rodolfo Martins

rodolfo.martins@evoleotech.com

General Manager

ENTITY PROFILE

Country

Portugal

Web (Url)

www.evoleotech.com

Organisation type

Company (SME)

Organisation size

26-50

Organisation description

EVOLEO designs, builds and integrates electronic embedded solutions for monitoring and data processing and integrated intelligence SW for local data pre-processing or transmitted data to a central server.

Cooperation profile

Technologies for European non-dependence and competitiveness, Maturing satellite communication technologies, Scientific instrumentation

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-5-2016: Scientific Instrumentation,

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS

GANSAT

Title

GaN Powered Ka Band high-efficiency multi-beam transceivers Satellites

Programme

FP7

URL

<http://www.evoleotech.com/gansat/>

PBSA

Title

Photonic Biosensor for Space Application

Programme

FP7

URL

<http://www.pbsa-fp7.eu/>

OPTIRAIL

Title

Development of a Smart Framework based on Knowledge to Support Infrastructure Maintenance Decisions in Railway Corridors.

Programme

FP7

URL

<http://www.optirail.eu/>

MAXBE

Title

Interoperable Monitoring, Diagnosis and Maintenance Strategies for Axle Bearings

Programme

FP7

URL

<http://paginas.fe.up.pt/~maxbe/>

IN2RAIL

Title

Innovative Intelligent Rail

Programme

H2020

URL

<http://www.in2rail.eu/>

TDP8 - CTTB

Title

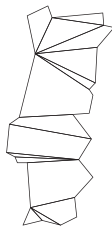
Components Technology Test Bed

Programme

ESA

URL

<http://evoleotech.com/portfolio-post/tdp8/>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



GMVIS Skysoft, S.A.

Teresa Ferreira

teresa.ferreira@gmv.com

Business Development Manager

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.gmv.com/en/>

Organisation type

Company (Large)

Organisation size

+250

Organisation description

GMV develops Galileo and Copernicus since the beginning.

Cooperation profile

R&D network, partnerships, end-users

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-4-2016: SRC - Space Robotics Technologies

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO-4-2017: EGNSS awareness raising and capacity building

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

ISSWINDEMO

Title

ISSWIND

Programme

ESA

URL

<https://artes-apps.esa.int/projects/isswind>

EAGUR

Title

Test User Receiver

Programme

ESA

URL

http://www.esa.int/Our_Activities/Navigation/Galileo_receivers

NEREIDS

Title

New Service Capabilities for Integrated and Advanced Maritime Surveillance

Programme

FP7

URL

<http://www.copernicus.eu/projects/nereids>

LOBOS

Title

LOw time critical BOrder Surveillance **Programme**

FP7

URL

<http://www.copernicus.eu/projects/lobos>

MYWATER

Title

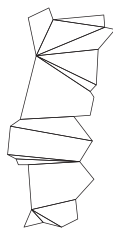
Merging hydrological models and EO data for reliable information on Water

Programme

FP7

URL

http://mywater-fp7.eu/?page_id=227



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT

HPS

High Performance Structures
Gestão e Engenharia Lda.
PORTUGAL

HPS - High Performance Structures, Gestão e Engenharia, Lda

Celeste Pereira
pereira@hps-lda.pt
Chief Operations Officer

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.hps-lda.pt/>

Organisation type

Company (SME)

Organisation size

11-25

Organisation description

HPS was established in 2007 and is currently supplying thermal insulation (MLI) sub-system within large contracts for EUCLID and ExoMARS Missions. HPS is also regular supplier of MLI for other small European missions: eRosita, Enmap, Alphasat, Sentinel 4. In parallel, HPS has developed key competences in the design and manufacturing of mechanical metallic and composite parts and large deployable structures.

Cooperation profile

HPS interests are related to the development of new competences and new technological products, as well to develop its network of partners.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 - 2017

Earth Observation

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-

dependence and competitiveness

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

GALILEO/EGNOS

GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

HYDRA

Title

Hybrid ablative development for re-entry in planetary atmospheric thermal protection

Programme

FP7

URL

<http://www.hydra-space.eu/english/homepage>

LADS

Title

Large Stable Deployable Structures for Future Science Missions

Programme

ESA

URL

<http://www.hps-lda.pt/>

PhWP

Title

Photonicallly Wired Spacecraft Panels

Programme

ESA

URL

<http://www.hps-lda.pt/>

EUCLID SSH MLI

Title

EUCLID Sunshield Thermal Hardware

Programme

ESA

URL

<http://www.hps-lda.pt/>

EUCLID PLM, SVM and NISP struts

Title

EUCLID PLM, SVM and NISP struts

Programme

ESA

URL

<http://www.hps-lda.pt/>

DEAM

Title

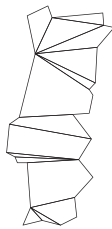
Development of an European Ablative Material

Programme

ESA

URL

<http://www.hps-lda.pt/>



11 NOVEMBER 2015
**PORTUGAL
SPACE DAY
2015**
INFORMATION
& NETWORKING EVENT



INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering

Nuno Rocha
nrocha@inegi.up.pt
Senior Researcher

ENTITY PROFILE

Country

Portugal

Web (Url)

www.inegi.up.pt

Organisation type

Research

Organisation size

51-250

Organisation description

INEGI is an interface Institution between University and Industry, oriented to the activities of Research and Development, Innovation and Technology Transfer. The Composite Materials and Structures Research Unit (UMEC) is one of the key units of INEGI. It has gathered long theoretical and practical experience in: Filament Winding, Pultrusion, RTM/LCM, Autoclave, Weaved and unidirectional Prepregs, Braiding, Preforming Technologies, New Materials Development and Characterization, Structural Health Monitoring (SHM) and Finite Elements (FEM) Modelling. At the international cooperation level, INEGI has been involved in R&D projects commissioned by private and state owned companies, public services and European programs. The European Aerospace Industry is the main client of INEGI's R&D services and the main partner in R&D projects.

Cooperation profile

UMEC has been involved in several Space-related projects mainly in the area of composite materials development (including the preparation of multifunctional composites, nanomaterials-based composites, and Space qualified prepreg systems), composite manufacturing processes development (including filament winding, pre-impregnation, and resin transfer moulding (RTM) and the associated tools

and process design), and on the testing of composite-based structures under Space relevant conditions. UMEC is interested in collaborations that aim at developing of innovative concepts where composites can play an important role (structural and thermal performance at low weight), systems design based on composite materials concepts, and collaboration with final integrator/end-users that required the development of composites at materials or process level.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

EUCARBON

Title

European Space Qualified Carbon Fibres and Pre-Impregnated Based Materials

Programme

FP7

URL

<http://www.eucarbon-project.eu>

KuDGR

Title

Dual-Gridded Carbon Fibre Reinforced Plastic Reflector

RTM E-BOX

Title

Thermally Conductive CFRP Electronic Boxes by Resin Transfer Moulding Manufacturing

Programme

ESA

CarbonMap

Title

Mapping of European Carbon Fibre Reinforced Polymer technology market

Programme

ESA

NEXA

Title

Non-Explosive Actuators for Hold Down and Release Mechanisms

Programme

ESA

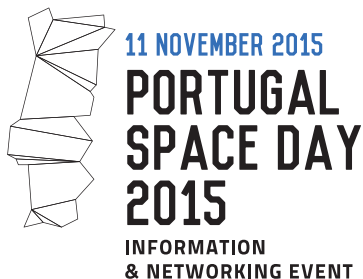
LADS

Title

Large Depolyable Structures

Programme

ESA



Institute of Telecommunications

Pedro Cruz
pcruz@av.it.pt
Postdoc Researcher

ENTITY PROFILE

Country

Portugal

Web (Url)

www.it.pt

Organisation type

Research

Organisation size

+250

Organisation description

Instituto de Telecomunicações (IT) is a private, not-for-profit organization, of public interest, a partnership of five institutions with experience and traditions in research and development in the field of Telecommunications: Instituto Superior Técnico (IST); Universidade de Aveiro (UA); Faculdade de Ciências e Tecnologia da Universidade de Coimbra (FCTUC); Portugal Telecom Inovação, S.A. (PTIn); and Siemens, S.A. Its main mission is to create and disseminate scientific knowledge in the field of telecommunications by being actively involved in fundamental and applied research in telecommunications, both at national and international level. Simultaneously it is committed to foster higher education and training, by hosting and tutoring graduate and postgraduate students. It is organized around three sites: one in Aveiro, in the University Campus, another in Coimbra, and the third one in Lisbon at IST. Its main scientific expertise, spans through Wireless Communications, Optical Communications, Networks and Multimedia and the horizontal area of Basic Sciences and Enabling Technologies.

Cooperation profile

IT is able to collaborate in several fields of space and satellite technology, with more emphasis on technology development for non-dependence (GaN-based hardware parts for example) and in RF and optical communications for satellite applications.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-3-2017: High speed data chain

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

MAIN PROJECTS

GANSAT

Title

GaN-powered Ka-band high-efficiency multi-beam transceivers for satellites

Programme

FP7

URL

<http://www.gansat.eu/>

WIPE

Title

Wireless Power Transmission for Sustainable Electronics

Programme

COST

URL

<http://www.cost-ic1301.org/>

BEACON

Title

Scalable & Low-Power Microwave Photonics for Flexible, Terabit Telecom Payloads & High-speed Coherent Inter-satellite Links

Programme

FP7

URL

<http://www.space-beacon.eu/>

Alphabus/Alphasat

Title

TDP 8 for Alphasat (GaN-based oscillator development)

Programme

ESA

URL

http://www.esa.int/Our_Activities/Telecommunications_Integrated_Applications/Alphasat/Environmental_Testing_Radiation_Sensor

DAAA

Title

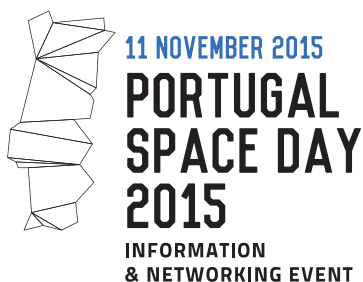
Drone Active Antenna Array - Feasibility Study

Programme

ESA

URL

<http://ptti.ipn.pt>



Institute Pedro Nunes

Inês Plácido
iplacido@ipn.pt
Innovation Manager

ENTITY PROFILE

Country

Portugal

Web (Url)

www.ipn.pt

Organisation type

Research

Organisation size

51-250

Organisation description

Instituto Pedro Nunes (IPN) is a private non-profit organisation that promotes innovation and the transfer of technology, establishing the connection between the scientific and technological environment and the production sector. To leverage a strong university-industry relationship for the promotion of innovation, rigour, quality and entrepreneurship in private and public sector organisations, IPN acts in three complementary areas: Research and technological development, consultancy and specialised services; Incubation and acceleration of businesses and ideas; Highly specialised training and promotion of science and technology.

Cooperation profile

Considering the scope of IPN's activities in the space domain, developed with ESA, IPN envisions its participation mostly in Coordination and Support Actions (CSAs) aiming at turning space-related business ideas into sustainable commercial endeavours, impacting the Portuguese and European economy and employment, namely in the frame of our R&D, technology transfer, incubation and acceleration activities. These activities may include support to technology transfer, business modelling, marketing and market approach, intellectual property management, business development, networking with users and potential clients, pitching, internationalization and exposure to investment.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO-4-2017: EGNSS awareness raising and capacity building

MAIN PROJECTS

ESA BIC Portugal

Title

ESA Business Incubation Centre in Portugal

Programme

ESA

URL

<http://www.space.ipn.pt>

AP Portugal

Title

ESA Ambassador Platform for ARTES Applications promotion in Portugal

Programme

ESA

URL

<https://artes-apps.esa.int/ambassador-platforms/apportugal>

ESA TT Broker

Title

ESA Technology Transfer Broker in Portugal

Programme

ESA

URL

<http://www.esa-tec.eu/instituto-pedro-nunes/>

PTTI

Title

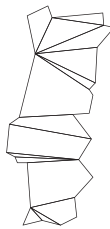
National Technology Transfer Initiative in Portugal

Programme

ESA

URL

<http://www.ptti.ipn.pt>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



IST/MARETEC - Marine, Environment and Technology Centre

Ramiro Neves

ramiro.neves@tecnico.ulisboa.pt

Associate Professor

ENTITY PROFILE

Country

Portugal

Web (Url)

www.maretec.org

Organisation type

University

Organisation size

+250

Organisation description

Instituto Superior Técnico is the Engineering School of the Lisboa University

Cooperation profile

I am a downstream intermediate user. My main interest is to use Space data as input for mathematical models or as validation data.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-4-2017: Scientific data exploitation

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO-3-2017: EGNSS professional applications

MAIN PROJECTS

Mywater

Title

Mergin Hydrological models and EO data for reliable information on watertranning purposes, using GNSS receivers, wearable sensors and Earth Observation information

Programme

FP7

URL

<http://www.mywater-fp7.eu/>

Asimuth

Title

Applied Simulations and Integrated Modelling for the Understanding of Toxic and Harmful Algal Blooms

Programme

FP7

URL

<http://www.asimuth.eu>

SenSyf

Title

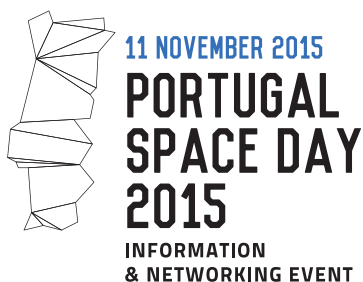
Synergy Framework for Sentinel Data

Programme

FP7

URL

<http://www.sensyf.eu/>



KEMET
CHARGED™
KEMET S.A.

Paulo Pedra
paulopedra@kemet.com
KEMET Electronics Portugal Board Member

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.kemet.com/>

Organisation type

Company (Large)

Organisation size

51-250

Organisation description

KEMET Electronics Portugal, SA was officially formed in 12th February 1997 in Évora, Portugal

The company produces Tantalum Capacitors Surface Mounted Devices with MnO₂ and Polymer counter-electrodes and more recently Aluminum Electrolytic capacitors. Strategically KEMET Electronics Portugal SA, wants to be the footprint baseline for the Military/Space and Medical segments grows in Europe for KEMET Corporation group. Following the market trend and latest technology innovations, ESA and KEMET have started on 1st March 2012 a project to development Ta SMD polymer technology counter electrode up to 50V rated voltage.

Cooperation profile

Learn and improve Capacitors capability to meet space conditions and with so support the electronic companies to build application and systems

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-3-2016-b: SRC - In-Space electrical propulsion and station keeping – Disruptive

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-5-2016: Scientific Instrumentation

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-3-2017: High speed data chain

COMPET-4-2017: Scientific data exploitation

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

GALILEO-3-2017: EGNSS professional applications

GALILEO-4-2017: EGNSS awareness raising and capacity building

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

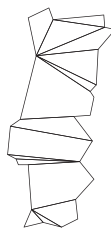
GSTP

Title

General Support Technology Programme Period 5 - Element 1

Programme

ESA



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



LIP - Institute for Instrumentation and High-Energy Particles

Patrícia Gonçalves

patricia@lip.pt

Resercher - Coordinator for Space Activities at LIP

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.lip.pt>

Organisation type

Research

Organisation size

51-250

Organisation description

LIP is a scientific and technical association of public utility for research in the fields of experimental high energy physics and associated instrumentation. LIP's research domains also encompass astroparticle physics, radiation detection instrumentation, data acquisition and processing, advanced computing and applications to Medical Physics and Space. LIP is an Associated Laboratory with units in Coimbra, Lisboa and Minho, where it has specific agreements with the Universities for the sharing of resources.

Cooperation profile

- 1.Space Radiation Environment: Radiation environment simulations with the Geant4 simulation toolkit: in space, in-orbit, on planetary atmospheres, surfaces and underground.
2. Radiation Effects in Components: modelling of SEE in EEE components in space; EEE component testing (ground/space), Radiation Hardness Assurance.
- 3.Human spaceflight: simulation of the radiation environment in manned missions (Moon,Mars); prediction of radiation hazards and assessment of mitigation strategies.
4. Radiation Monitors: Detector design and optimization through dedicated Geant4 simulations of detector response for mission specific cases, detector calibration and data analysis.

5.Astrophysics Instrumentation (LIP-Coimbra) X and gamma-ray detectors for space: testing and development Semiconductor Detectors (CdTe) and Gas filled detectors for spectrometry, imaging and polarimetry; mass model simulation tools (Geant4 and MGGPOD).

6. Advanced Computing including Infrastructures

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-5-2016: Scientific Instrumentation

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

COMPET-4-2017: Scientific data exploitation,

COMPET-5-2017: Space Weather

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GNSS Evolution, infrastructure-related R&D activities

MAIN PROJECTS

MarsREM

Title

"MarsREM - the Martian Radiation Environment Models"

Programme

ESA

CODES

Title

INTEGRATED RADIATION ENVIRONMENT, EFFECTS AND COMPONENT DEGRADATION SIMULATION TOOL

Programme

ESA

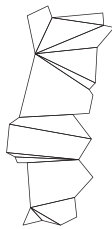
AlphaSat CTTB - Preparation

Title

AEEF CTTB, Preparation of In-Flight Data Analysis

Programme

ESA



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Omnidea Lda

Rei Fernandes

rei.fernandes@omnidea.net

Chief Administrative Officer

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.omnidea.net>

Organisation type

Company (SME)

Organisation size

11-25

Organisation description

Omnidea is a R&D leading SME in the fields of Space propulsion; Atmospheric Platforms; Energy Storage; Power Electronics and Instrumentation. Space related products include a portfolio of propulsion components with Space heritage and qualification such as valves, pressure regulators, transition joints, etc. and others in development such as aluminium liners for COPV. Omnidea has been both Prime contractor and subcontractor on several ESA activities and also both coordinator and partner in FP7 projects.

Cooperation profile

Earth Observation from Atmospheric Platforms

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-2-2017: Competitiveness in Earth observation mission technologies

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

GALILEO-2-2017: EGNSS mass market applications

MAIN PROJECTS

HAWE

Title

High Altitude Wind Energy

Programme

FP7

URL

<http://www.omnidea.net/hawe/>



Portuguese Institute for Ocean and Atmosphere

Isabel Trigo
isabel.trigo@ipma.pt
Coordinator of IPMA's Remote Sensing Group

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.ipma.pt>

Organisation type

Research

Organisation size

+250

Organisation description

National Service for Meteorology and the Ocean. Carries out research and provides services in Meteorology, Climate, Seismology and Oceanography

Cooperation profile

IPMA develops satellite applications (algorithm & product design) and operates satellite ground segments.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-3-2017: High speed data chain

COMPET-4-2017: Scientific data exploitation

GALILEO/EGNOS

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

Geoland2

Title

Towards an Operational GMES Land Monitoring Core Service

Programme

FP7

URL

<http://www.copernicus.eu/projects/geoland2>

MACC-II

Title

Monitoring Atmospheric Composition and Climate

Programme

FP7

URL

<https://www.gmes-atmosphere.eu/>

MACC-III

Title

Monitoring Atmospheric Composition and Climate

Programme

H2020

URL

<https://www.gmes-atmosphere.eu/>

WACMOS-ET

Title

WATER Cycle Observation Multi-mission Strategy - EvapoTranspiration

Programme

ESA

URL

<http://wacmoset.estellus.eu/>

GlobTemperature

Title

ESA DUE Initiative GlobTemperature

Programme

ESA

URL

<http://www.globtemperature.info/>

LSA SAF

Title

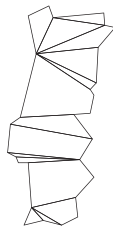
Satellite Applications Facility on Land Surface Analysis

Programme

EUMETSAT

URL

<http://landsaf.ipma.pt/>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Spin.Works S.A.

Tiago Hormigo

tiago.hormigo@spinworks.pt

Head of Space Business Development

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.spinworks.pt>

Organisation type

Company (SME)

Organisation size

11-25

Organisation description

Spin.Works is an aerospace company dedicated to the development and manufacturing of aerostructures and unmanned systems for the Aeronautics, Space and Defence markets, taking advantage of its multi-disciplinary competences, as an integrator for complete systems and products. Mission: Create, develop and deploy innovative, multi-disciplinary and cost-effective solutions, in the areas of structures, mechanisms, guidance navigation & control (GNC) systems, simulation, remote detection systems, unmanned aerial vehicles (UAVs) and space exploration missions. Vision: Become a system integrator and reference player in the emerging unmanned aerial vehicles and personal aircraft markets, and lead the future of aerospace transport.

Cooperation profile

The main areas for cooperation are:

Multisensor data fusion for hazard detection and avoidance in planetary/small body landing missions - Image Processing, Navigation and Registration for Earth Observation (EO) and Planetary Missions - Attitude and Orbit Control Subsystem (AOCS) design for EO and Planetary Missions
Multi-mission Image Processing Avionics

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-5-2016: Scientific Instrumentation

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-5-2017: Space Weather

GALILEO/EGNOS

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

FUSION

Title

Sensor Data Fusion for Hazard Mapping and Piloting

Programme

ESA

URL

http://www.turing-gateway.cam.ac.uk/documents/ose_2015/Tiago%20Hormigo.pdf

StarTiger Dropter

Title

StarTiger: Terrestrial Dropship Demonstrator

Programme

ESA

URL

http://www.esa.int/Our_Activities/Space_Engineering_Technology/Dropship_offers_safe_landings_for_Marsrovers

AIM Phase A/B1

Title

Asteroid Impact Mission - Phase A/B1

Programme

ESA

URL

http://www.esa.int/Our_Activities/Space_Engineering_Technology/Asteroid_Impact_Mission/Design_begins_for_ESA_s_Asteroid_Impact_Mission

AINGEO

Title

AOCS and Image Navigation and Registration for Geostationary Earth Observation

Programme

ESA



TEKEVER S.A.

André Oliveira
andre.oliveira@tekever.com
Business Development Manager

ENTITY PROFILE

Country

Portugal

Web (Url)

<http://www.tekever.com>

Organisation type

Company (SME)

Organisation size

51-250

Organisation description

TEKEVER Space's technology development strategy is focused on taking advanced, deployed and tested terrestrial technologies and spinning them into the Space market to create products with a high degree of innovation and a high return on investment. TEKEVER focuses on the development and space-validation of products in communications, navigation and positioning subsystems as well as the development of nano-satellite platforms. TEKEVER has been involved in the design, development and qualification of two CubeSats. In the communications and navigation field, we developed GAMALINK, a multifunctional Software-defined Radio (SDR) communications and networking platform, providing Ground and Inter-Satellite Links and supporting GNSS-based position determination, RF-based attitude determination and ranging between satellites. This platform is optimised for the small satellite market, compatible with the CubeSat standard and supports the challenges of emerging mission concepts involving multiple spacecraft. GAMALINK had his maiden flight on-board the Chinese TW-1 mission, launched in September 2015, and will be launched in several CubeSats as part of the QB50 mission, in 2016. TEKEVER is also involved in the ESA PROBA-3 mission, providing the Inter-Satellite Link critical subsystem, based on GAMALINK technology, for the validation of formation flying technologies. The TEKEVER Group has been involved in more than 15 FP7 projects including 2 Space projects (coordinated by TEKEVER) and 2 ongoing H2020 and 1 CS2 projects (one in

Space, coordinated by TEKEVER).

Cooperation profile

TEKEVER is interested in meeting and discussing ideas and cooperation opportunities with LSI, academia and satellite owners concerning the evolution of small satellite communication solutions including ISL, cognitive radios and ad-hoc networks in space. The domain of fractionated spacecraft and the field of space robotics are also of great interest for us.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

Competitiveness of European Space Science and Technology

COMPET-1-2016: Technologies for European non-dependence and competitiveness

COMPET-2-2016: Maturing satellite communication technologies

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-1-2017: Technologies for European non-dependence and competitiveness

COMPET-3-2017: High speed data chain

GALILEO/EGNOS

GALILEO-1-2017: EGNSS Transport applications

MAIN PROJECTS

GAMALINK

Title

Generic SDR-bAsed Multifunctional spAce LINK

Programme

FP7

URL

<http://gamalink.eu>

PROBA-3

Title

TEKEVER supplies the ISL for ESA's first formation flying mission

Programme

ESA

URL

http://www.esa.int/Our_Activities/Space_Engineering_Technology/Proba_Missions/About_Proba-3

SWIPE

Title

Space Wireless sensor networks for Planetary Exploration

Programme

FP7

URL

<http://swipe.tekever.com>

SCREEN

Title

Space Cognitive Radio for Electromagnetic Environment maNagement

Programme

H2020

URL

<http://www.screen-h2020.com>

RAPSODY**Title**

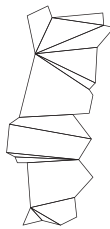
Remote Airborne Platform with Satellite Oversight
Dependency

Programme

ESA

URL

<http://tekevernews.blogspot.pt/2014/12/pioneering-tekever-unmanned-system.html>



11 NOVEMBER 2015

PORTUGAL SPACE DAY 2015

INFORMATION
& NETWORKING EVENT



Computational Intelligence Research Group

UNINOVA-CA3

António Falcão

ajf@uninova.pt

Research Engineer

ENTITY PROFILE

Country

Portugal

Web (Url)

www.ca3-uninova.org

Organisation type

Research

Organisation size

26-50

Organisation description

UNINOVA is a multidisciplinary, autonomous and non-profit research institute located near Lisbon, Portugal. The CA3 - Computational Intelligence Research Group has been working with ESA since 2001, providing solutions in computational intelligence concepts and technologies applied to the Space domain. With an extensive portfolio of projects in cooperation with most ESA establishments (ECSAT, ESAC, ESOC, ESRIN and ESTEC), our research projects encompass various areas and have always been aimed as "operational prototypes": ground-breaking innovation, aimed at operational environments in the space sector. We have created solutions for innovative monitoring and early warning, decision support systems, data fusion and dynamic multi-criteria decision making, intelligent image processing, and very large dataset exploration (visual analytics).

Cooperation profile

Our expertise has been applied to several areas within the space sector, and therefore we are open to cooperation in several topics and welcome challenges where our know-how can contribute to innovative solutions.

TOPICS OF INTEREST FROM H2020 SPACE WP 2016 -2017

Earth Observation

EO-1-2016: Downstream applications

EO-2-2016: Downstream services for public authorities

EO-3-2016: Evolution of Copernicus services

EO-1-2017: Downstream applications

EO-2-2017: EO Big Data Shift

Competitiveness of European Space Science and Technology

COMPET-4-2016: SRC - Space Robotics Technologies

COMPET-4-2017: Scientific data exploitation

COMPET-5-2017: Space Weather

COMPET-7-2017: Technology transfer and business generators

GALILEO/EGNOS

GALILEO / EGNOS Evolution, Mission and Service related R&D activities

MAIN PROJECTS

IPSIS

Title

Intelligent Planetary Site Selection

Programme

ESA

URL

http://www.ca3-uninova.org/project_ipsis

IVELA

Title

Interactive Visualization Environment for Large Archives

Programme

ESA

URL

http://www.ca3-uninova.org/project_ivel

GEAF

Title

EO Ground Segment Elements Automation Feasibility

Programme

ESA

URL

http://www.ca3-uninova.org/project_geaf

MODI

Title

Monitoring and Diagnosis for ExoMars Drill

Programme

ESA

URL

http://www.ca3-uninova.org/project_modi

SEIS

Title

Space Environment Information System

Programme

ESA

URL

http://www.ca3-uninova.org/project_seis

VA-4D

Title

Visual Analysis of 4-Dimensional Fields, Processes & Dynamics

Programme

ESA

URL

http://www.ca3-uninova.org/project_va4d