Test slide: What is your favorite plant?

Ginkgo biloba

Almond

Tomato

Tomato

Potato

Adansonia grandidieri

None

Wheat

Test slide: What is your favorite plant?

Almond

Grass

Sugar beet

Rice, tomato

Maize

Wheat

POTATO!!

Araucaria araucana

Mentimeter

Test slide: What is your favorite plant?

tree

All

vines

Forest

maize

Wheat

Wheat

Grass

8

42

Mentimeter

Test slide: What is your favorite plant?

cork oak

Geranium

NAN

Wheat

olive

Araucaria araucana

wheat

Pines

8

42

Mentimeter

Test slide: What is your favorite plant?

Maize

Maize

Tomato

forage grasses

potato > tomato

Wheat

banana

Sunflower

8

42

Test slide: What is your favorite plant?

almond

None!

wheat maize

Tomato

Banana

tilia

rice

Chickpea

Test slide: What is your favorite plant?

Rice	Potato	Olive	beech
maize	Wheat	tomato	banana

8 42

Test slide: What is your favorite plant?

rice

Barley

soybean

Apple

Aristolochia samsunensis

Sesame

nicotiana benthamiana

Potato

Mentimeter

Test slide: What is your favorite plant?

Mango

senior researcher

Professor

Professor

Taxus bacata

Founder and ceo

Assistant Professor

Tomato

8

42

Mentimeter

Test slide: What is your favorite plant?

electronic engineering

8

42

What is your position at your home institution (e.g. PhD student, senior researcher)?

Senior reseaecher

PhD student

Researcher

Researcher

Researcher

Professor

PhD student

senior researcher

6

51

What is your position at your home institution (e.g. PhD student, senior researcher)?

PhD student

PhD student

Senior Researcher

Postdoc researcher

PhD student

Chief researcher

senior researcher

assistant professor

6

51

What is your position at your home institution (e.g. PhD student, senior researcher)?

phd student

PhD student

Assistant professor

Postdoc researcher

PhD student

senior researcher

Professor

Postdoc researcher

What is your position at your home institution (e.g. PhD student, senior researcher)?

Researcher

PostDoc

senior researcher

1st year PostDoc

Senior researcher

Senior researcher

PhD Student

senior researcher

Mentimeter

What is your position at your home institution (e.g. PhD student, senior researcher)?

professor

Senior researcher

Senior researcher

Team leader / senior researcher

PI

PostDoc

Wheat

Post Doc Fellow in University of Southampton

6

51

What is your position at your home institution (e.g. PhD student, senior researcher)?

- Founder and ceo
- Associate professor
- Associate professor
- Assistant professor (Italian RTD-A)
- Postdoc
- Senior researcher
- Senior Scientist
- Phd candidate

What is your position at your home institution (e.g. PhD student, senior researcher)?

Assistant professor

Full prof

Junior researcher

Researcher

senior researcher

Assistant Profesor

CEO

Senior reseacher and phd candidate in plant biotechnolgy department

What is your position at your home institution (e.g. PhD student, senior researcher)?

Spectral imaging

Molecular biology and biotechnology

remote sensing

remote sensing

Enviromental science + remote sensing

water management in agriculture

Still to find out

field spectroscopy

What is your position at your home institution (e.g. PhD student, senior researcher)?

Fieldspec, Floxbox

What is your scientific background?

Ecophysiologist

Remote sensing

Chemical sensors

Remote sensing

plant ecophysiology

ecohydrologist

PhD in Ecology

Quantitative genetics

What is your scientific background?

Remote Sensing / Plant Physiology / Data Science / Plant Phenotyping

Environmental scientist+

Forestry and remote sensing

Mechatronics engineer and farmer

Remote sensing

ecosystem ecology

Imaging spectroscopy

Geoinformatics and remote sensing

What is your scientific background?

remote sensing

Remote sensing of Vegetation

Agriculture economics

Remote sensing

Biology

Metrology science, Computer Vision, Vision system set-ups

GIS

Molecular biology

What is your scientific background?

Agriculture

Remote sensing

PhenotypingAgronomistSensor Remote sensingAI

Remote Sensing / Plant Phenotyping

Hyperspectral

Remote Sensing / Space Technology

ecophysiology, high-throughput field phenotyping

geospatial data science

What is your scientific background?

Plant physiology

Environmental Physics

Remote sensing, plant ecophysiology, phenotyping, water-related traits

ecologist

Remote sensing

Environmental Sciences

Forestry

crop breeding and genetics

What is your scientific background?

metrology

Genetic Resources, Fruits, Breeding, Molecular Genetics, Digital Phenotying

remote sensing

satellite imagery

Remote Sensing/ Agriculture/ Data Analysis / GIS

Forestry and RS. Web and mobile development

Remote sensing/photogrammetry

Biophysics

What is your scientific background?

Paddy

biotechnology

Remote Sensing

biotechnology

Agronomy/ Agriculture Engineering/ Precision Agriculture

Remote Sensing / LiDAR

Forestry/ Plant phenotyping

PhD in Environmental Enginnering

What is your scientific background?

Electronic engineering

remote sensing

Field Spectroscopy

Spatial analysis

Klab and field spectroscopy

Metrology science (standards, protocols, uncertainty) which mostly intertwines with WG4

Automatic digital image processing / tools

Lab and field spectroscopy

What is your scientific background?

phenotyping speacialist

designing UAV protocols for specific neds

Deep learning tools implementation

structural analysis

crop physiology

Plant physiology

Plant physiology

RGB, multispectral sensors and databases

What is your scientific background?

Prism

To get hands-on expertise in field phenotyping

How plants adapt the abrupt environmental conditions

What is your key competence you bring to WG1?

Phenotyping specialist

my charming personality

Spectral data analysis of field data

Digital phenotyping and image analytics

UAV and airborne imaging spectroscopy

Remote sensing

Applied research in close collaboration with end-users (farmers, foresters)

Hyperspectral imagery

What is your key competence you bring to WG1?

hybrid machine learning methods

Remote Image analysis

Sensors and data analysis

10 years of experience in UAV remote sensing for field phenotyping

Still to figure out

Systems development

Practical solutions for UAV plant phenotyping

My expertise and hardworking

What is your key competence you bring to WG1?

UAV imaging

Tree phenotyping

Remote sensing-based plant phenotyping

sensor synergies and data integration

RS and UAV-app development

my sense of humor

Spectral data analysis

Plant Physiology

What is your key competence you bring to WG1?

uav based pp using rgb, ms and thermal sensors linked to different plant traits and abiotic stresses

Highthrouput phenotyng

Lab and field spectroscopy

Proximal and remote spectroscopy

Highthroughput phenotyping

Spatial analysis for forestry and agriculture

Metrology science (protocol definition, uncertainty analysis, standardization)

Disease detection

What is your key competence you bring to WG1?

Expertise in sensors understanding

Plant physiology and genetics

3D RTM use in combination with Machine Learning

Thermal imaging

experience in the use of uav for plant phenotyping and precision agriculture

applied measurements and analysis of hyperspectral data, both imaging and single-point

Establishing permanent monitoring plots of Mediterranean forests

I'm mostly here to understand the connection with other WGs

What is your key competence you bring to WG1?

RGB data analysis

HTTP applied in forestry

Autonomous UAV Navigation

Pure luck and Field experience about plant comunities

Design multispectral UAV protocols for specifics needs

Sun Induced Chlorophyll Flourescecne (SIF)

Precision agriculture techniques and technologies

UAV imaging

What is your key competence you bring to WG1?

Phenotipic data manageme t

Sentinel 2, modis, landsat

Satellite and UAV remote sensing, field spectroscopy

FluoWat, molecular techniques, HPLC

envi

UAV, Lidar, RGB ,MS, thermal, satellite, image analysis, deep learning

Expand knowledge

collaboration opportunities with academics

What is your key competence you bring to WG1?

Employ UAV

Curiousity, networking, learn new techniques and also data handling, also subside interested to find new ideas and collaborations for our new study programme :)

What technologies are you experienced in (e.g. specific sensors, data management, models)?

sentinel-2

UAV

Chat GPT

Lidar, SLAM, computer vision, mapping, robotics

gaussian processes regression

Optical sensors

RGB cameras

UAV

What technologies are you experienced in (e.g. specific sensors, data management, models)?

Spectroscopy

SCOPE

Hyper/multi spectral cameras

Field spectrometry

Hyperspectral UAV birne imagery

Thermal imaging sensors. Energy balance models.

UAV data extraction and sensor synergies

rgb, multispectral, thermal and lidar sensors

What technologies are you experienced in (e.g. specific sensors, data management, models)?

- thermal sensors
- Plant stress physiology
- Object Detection with YOLO
- ArcGIS, bioeconomic modelling
- leaf-clip sensors
- Field spectral data collection
- Field spectrometers/spectroradiometers
- GEE, GOM 3D, QGIS, GNSS, UAV

What technologies are you experienced in (e.g. specific sensors, data management, models)?

rgb, ms, thermal, time series analysis

Thermal hyperspectral RGB based data

Hyperspectral

UAVs and cameras

SWAT models eddy covariance EnMap

PROSAIL-PRO

optical sensors, hyper/multi cameras, pytorch, tensorflow, MATLAB

Filed spectrometry

What technologies are you experienced in (e.g. specific sensors, data management, models)?

Multispectral and hyperspectral satellite, airborne and uav sensors, evaporranspuration modelling

Spectral data preprocessing and analysis

DART

Multispectral

sensor data fusion

multispectral cameras

Satellite (e.g., Sentinel-2, PRISMA)

LAI data collection

What technologies are you experienced in (e.g. specific sensors, data management, models)?

FieldMap, GIS, LiDAR, TreeTalker

High resolution infrared radiometers, UAVs, LICOR, scholander chamber, EddyCovariance towers

GIS-based software

machine learning models

spectral imagers, thermal imagers

Spectrometers, multi/hyperspectral image acquisition and processing, general GIS, AI/ML algorithms

drone

data science and mashine learning

What technologies are you experienced in (e.g. specific sensors, data management, models)?

leaf-clip sensors

RS, field spectroscopy, field imaging, yield prediction models, AI/ML

Machine learning, satellite and UAV

UAVRGB camerasmachine learning models

Learn from the others about best practices, sensor choices etc.

To work with international scientists and to establish collaboration networks

Knowledge and ideas exchange, publishing, future new R&D project

To collaborate for landscape ecology

What is your key motivation to participate in WG1?

trips to network

network, learn each other, exchange ideas

Objective 1.4 - Applying WG1 knowledge to the forestry field

Be part of some great projects

condense datasets

Network

to connect my project on cereal stress

learning in a networking environment

What is your key motivation to participate in WG1?

Networking and exchange in expertise, education.

networking

UAV in forestry

Invasive Alien Plants mapping

Sharing research experiences, methods, widen network

Connect with researchers, promote collaborations and exchange data

Networking, learning new methods, get some inspiration from other related fields

Synergies and learning new methods

What is your key motivation to participate in WG1?

Exchange experiences, network

collaborations

Networking and Research interest

validation data

Create nice paper and new ideas

I'm actually participating in WG2 and WG4, here just to understand what the other WGs are about

meet likeminded individuals and see the world (or at least europe)

Networking and learning

What is your key motivation to participate in WG1?

learn from each other and work towards standardize methodologies

Ideas for better phenotyping

Network & Cooperation

Learn from the others about the best practices

Networking and experience exchange.

For save the trees,save the world:)) save my childerns home.networking

to exchange knowledge and learn some new skills

how to better process my data/images

What is your key motivation to participate in WG1?

gain new knowledge

multidisciplinarity boosting plant phenotyping

Better understand on vegetation

Exchange and sharing of experience/knowledge

Work to support the farmer in the challenges he faces.

networking, data collection

Project and Scientific collaboration

Contribute in this WG by publishing the scientific articleConnectDeep learning about the topics of wg

What is your key motivation to participate in WG1?

To find out, how to meaningfully connect the information from different sensors

collaborations

Feed the future

networking and exchanging knowledge

To learn and share knowledge

Learn modern measurement technology

get inspired, try to inspire other

NetworkTo be a scientific partner in research projectsNew Knowledges and competencescollaborations

What is your key motivation to participate in WG1?

Knowledge and ideas exchange, publishing, new R&D projects

Better AI models (standard, models, training/benchmark datasets)

standardize methodologies and transfer them

Develop an AI-based image processing tool to identify specific tree species.

What innovations do you expect (or hope for) by bringing PP and RS together?

Improve sustainable management

Explaining better the plant physiology from RS data

Integration of forests with agriculture

improving models parameterizations for field predictions

New remote sensing-based índices for plant phenotyping and agricultural/forestry management

Coupling better photosynthesis processes

save the world

improve knowledge on plant adaptations

What innovations do you expect (or hope for) by bringing PP and RS together?

Expand foundations on traits retrievals through RS

See how these techniques could be practically applied

Select best performing genotypes

Identification of suitable breeding material

Improved workflow for evapotranspiration models using UAVs.

advancing knowledge and promoting sustainable agriculture

Find better explanations on vegetation behavior

Best bands or indices for plant phenotyping in agriculture/forestry

What innovations do you expect (or hope for) by bringing PP and RS together?

Scale to view global processes

standardize methodologies and transfer them

improve the use of machine and deep learning techniques using in-field data

high resolution satellite imaging for pp

create a huge validation dataset for model training

To come up with UAV standardizations for UAV implementation in PP

Promoting the upscaling of field monitoring to support realtime monitoring at a large scale

get more data,plants especially wild types interesting for me.because i think in future we need some genes of wild types.

What innovations do you expect (or hope for) by bringing PP and RS together?

Better AI models (standards, models, training/benchmark datasets)

Advance the field toward true agriculture 4.0

predictive data driven models - early stress detection

phenomic prediction, speed up breeding cycles

Reliable models and designs of adequate monitoring systems to promote sustainable management of green infrastructure.

Improve the selection of promising varieties in breeding by quantitative and repeatable measurements in high throughput.

New product/ideas for Precision Agriculture and Digital Agriculture business/ market

help in achiving the goal of European green deal

What innovations do you expect (or hope for) by bringing PP and RS together?

Improving the plant physiology model through data assimilation

Better understanding of RS results with PP

data management standards to perform repeatable measurements

One article practically implementing all the guidelines and best practices that will come out of this WP.

Exchanging research methodologies

Any specific expectation regarding your participation in WG1?

that we can meet in real life

More physical meeting, otherwise Zoom for whole days is difficult

Bridging knowledge of WG1 to the forestry domain

Share practical solutions for UAV phenotyping.

openness in data sharing

recruitment of young researchers

Do science and have fun!

Publish scientific papers, participate in Workshops, summer schools

Any specific expectation regarding your participation in WG1?

Participating in WG meetings to create a better network.

learning and learning,and sharing

Sharing ideas and contributing for scientific publications.

Sharing measurement technology and experience

hybrid meeting are nice but physical meeting are way better for discussions

Concrete results with the core group of people that really want to work together

Learn from the best and share

share technologies and experience

Any specific expectation regarding your participation in WG1?

active research

collaborations and networking

increase networking on plant phenotyping

Give opportunities to meet for new members not just for the same people everytime

Potential group collaborations for transnational projects, research stays possibilities, etc

sharing knowledge and building capacity

simplify the PP by RS

learn about new methodology

Any specific expectation regarding your participation in WG1?

Transferring knowledge / partecipate in meetings

pragmatic approaches for htpp

I would be very happy to learn from colleagues and find collaborators with complimentary skills.and beer?

Start on reserach work

collaborations

Exchange research methods

Collaboration and networking

Taking advantage of opportunities to learn

(If you participate in other WGs) What synergies should we specifically focus on?

upscalling

EnMap/PRISMA with sentinel 2

I need to read again the MoU and more information about the wg3

Upscalling and downscalling measurements

Sharing of standard/best practices

Networks

Upscalling

joint protocols

(If you participate in other WGs) What synergies should we specifically focus on?

best practice protocols

Integrate field data and observations derived from RS to manage forest ecosistems

scalability of RS observations

Good question :)

sensor synergy

paricipate in the whole processing workflow

collaborationsField practicesTest field trials

Any suggestion you want to provide to WG1 Chairs?

Mentimeter

Any further questions?