

### Programme

12:30

12:45

13:00

Pedro Marques, UTAD

Discussion
Lunch Break

**12<sup>th</sup> December** — Morning

09:00	Registration of participants
09:30	Opening Session Ana Barros (Director of CITAB) José Caldeira (INESC TEC Administration Board) Artur Cristóvão (Vice-Rector of UTAD) Isabel Ferreira (Secretary of State for Interior Valorisation)
	SESSION 1
09:45	Needs of contribution of digital modelling to functional foods design Cristina Garcia Viguera, Spanish Research Council Institute CEBAS-CSIC (Keynote speaker) & Raúl Dominguez-Perles (CEBAS-CSIC)
10:15	Spectroscopic method for the traceability and authentication of food matrices Irene Gouvinhas, Ana Barros, UTAD
10:30	Digital platform for obesity control: A case study José Maria Tallon, Medical Clinic Dr. Tallon
10:45	Discussion
11:00	Coffee-break
	SESSION 2
11:15	New and emerging technologies for the Digital Agriculture of the future Sigfredo Fuentes, University of Melbourne (Keynote speaker)
12:00	LoRaWAN Wireless Sensor node system for multi functional heat pulse probe António Valente, UTAD
12:15	Development of an intelligent control system for water and nutrient management for fertigation systems Samir Mehmeti, INESC TEC

Leaf water status assessment of olive by vegetation indices

# Programme

### **12<sup>th</sup> December** — Afternoon

#### SESSION 3

Poster/Demo Session

16:45

14:30	Leveraging in the digital technologies for more resilient and sustainable forest value chain Alexandra Marques, INESC TEC (Keynote speaker)
15:15	Extracting physical information from wood NIR spectra José Carlos Rodrigues, ISA-University of Lisbon
15:30	Heavy-Duty robots for Agro-food & Forestry: converting field machines into ROS André Araújo, Ingeniarius Lda.
15:45	Monitoring of the invasion of Portugal by Vespa velutina nigrithorax through an Integrated Geographic Information System José Aranha, UTAD
16:00	Coffee-break
16:15	Forest monitoring system Thadeu Brito, IPBragança
16:30	Discussion



## Programme

**13<sup>th</sup> December** — All Day

#### SESSION 4

10:00	Technological innovations for a sustainable viticulture in Douro Wine Region Rui Soares, Real Companhia Velha (Keynote speaker)
10:45	Vineyard path segmentation from satellite imagery using machine learning for path planning Luís Santos, INESC TEC
11:00	Wine grape ripeness assessment using HSI and Artificial Intelligence Véronique Gomes, UTAD
11:15	Coffee-break
11:30	Assessing grapevine predawn leaf water potential from hyperspectral signatures and pigment's using machine learning algorithms: a framework tested in Douro wine region Renan Tosin, INESC TEC
11:45	Debate
12:30	Closing Session Ana Barros (Director of CITAB) José Boaventura da Cunha (INESC TEC) Emídio Gomes (Vice-Rector of UTAD) - TBC Nuno Russo (Secretary of Estate of Agriculture and Rural Development) - TBC
13:00	Lunch break



14:30







Technical visit to Quinta das Carvalhas (Pinhão)