

# **The 2nd Edition of the INTERNATIONAL SEMINAR: TECHNOLOGY & INNOVATION TO MODERNIZE SAHARAN AGRICULTURE-TIMSA26**



**Tuesday, 24 November 2026 - Wednesday, 25 November 2026**

## **Scientific Programme**

## **Axis 1: Smart Livestock Management and Technological Innovation**

**Artificial intelligence applied to animal health, reproduction, growth and welfare**

**Management tools and optimisation of farm performance**

## **Axis 2: Forage Production and Climate Resilient Cropping Systems**

**Genetic improvement of forage species and crops adapted to water and heat stress**

**Management of soil fertility, irrigation water and inputs in the context of climate change**

**Valorisation of local resources (indigenous forage species, agricultural by-products, halophytic plants)**

## **Axis 3: Agroecological Feeding Systems and Circular Bioeconomy**

**Study of plant secondary metabolites (essential oils, polyphenols, tannins, saponins, alkaloids) and their modes of action on digestion, rumen microbiota and immunity**

**Use of natural additives as alternatives to synthetic additives and antibiotic growth promoters (plant extracts, powdered plants, macerates, essential oils)**

## **Axis 4: Genetic Resources and Climate Resilience**

## **Characterisation, conservation and valorisation of local breeds and animal genetic resources**

**Genetic selection for heat tolerance, robustness, disease  
resistance and productivity**

## **Axis 5: One health approach**