

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