GNSPS Objectives

Promote the strengthening and scaling up of SPS, wherever there are technical, economic, environmental, and cultural options for supporting livelihoods and business activities with sustainable livestock farming, specifically through the generation, exchange and dissemination of knowledge, the documentation of public policies in countries and/or sub-regions, and the facilitation of dialogue to address the challenges associated with Sustainable Development Goals.
Schematic representation of agroforestry or mixed systems in which trees interact with agriculture, livestock or both (Burgess et al. 2017)
SILVOPASTORAL SYSTEMS

Intentional Integration of trees, shrubs, pasture and livestock with Intensive management of Interaction (Jose, 2017) (The four “I”).
SILVOPASTORAL SYSTEMS

Feed

Different woody stratus

Improve pasture with woody species

N fixation and carbon sequestration

Improve animal nutrition and welfare

Greenhouse mitigation

Water and biodiversity conservation

Healthy milk and meat production

Soil nutrient cycling

Manure

Source: Solorio, et al. 2017
SILVOPASTORAL SYSTEMS
Intensive Silvopastoral Systems

iSPS with *Tithonia diversifolia*

iSPS with *Leucaena leucocephala*

*Leucaena* in Australia

Over 200,000 ha
SILVOPASTORAL SYSTEMS FOR DIFFERENT SPECIES

El Chacho in Argentina

Black locust/black walnut silvopasture system at Virginia Tech’s Kentland Research Farm. Photo by John Munsell. Courtesy: Mathew Smith USDA
Silvopasture in Europe


Organic pig production with poplars. Denmark. Kongsted 2017

Apple orchards and egg production. Netherlands. Bestman 2017

Apple and sheep. UK. Burgess P. 2017
Aprox 18,000 ha of grazing in orchards

Grazing in apple orchards. France. Corroyer N. 2017

Cattle and pigs in Montado. Spain. Moreno G. 2017
Hedgerows: 468,000 Km in UK (Herder et al. 2016)
Photo: FarmingUK

Hedgerows in Ireland: 689,000 Km
Photo: Teagasc

Windbreaks in USA
SUSTAINABLE LAND USES (SLUS)

Livestock SLUS include a set of arrangements and best practices with adoption potential aimed to improve sustainability (environmental, social and economic) of a value chain at farm and landscape level in aspects related to:

- **Biodiversity conservation**
- **Improvement of productivity and profitability**
- **Restoration of degraded lands**
- **Reduction of GHG emissions**
- **Reduction of deforestation**
- **Reduction of land degradation.**
- **Increase of carbon sequestration**
- **Improvement in livelihoods**
- **Contribute to peace-building**
SUSTAINABLE LAND USES

- Scattered trees in pastures
- Living fences
- Agropastoral stripes
- Fodder hedgerows
- Fodder banks (mixed)
- Improved pastures
- Forest restoration

SUSTAINABLE PRACTICES

- Rotational grazing
- Water distribution systems
- Electric fences
- Record keeping
- Milking BMP
Livestock Sector Actions Towards More Sustainable Food Systems

3 – 7 October 2022 Dublin Ireland | 12th GASL MSP Meeting (Hybrid)
## SUSTAINABILITY COMPONENT

<table>
<thead>
<tr>
<th>SUSTAINABILITY COMPONENT</th>
<th>%</th>
<th>CRITERIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mitigation of GHG emissions</td>
<td>10</td>
<td>Reduction of emissions from rumen, excreta and soil</td>
</tr>
<tr>
<td>2. Carbon capture</td>
<td>10</td>
<td>Increase of carbon stock in biomass/Protection of soils and increase in SOM Reduction of derorestation / Land release for restoration</td>
</tr>
<tr>
<td>3. Peace building</td>
<td>20</td>
<td>Increase of net income / employment regeneration</td>
</tr>
<tr>
<td>4. Value Chain</td>
<td></td>
<td></td>
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<tr>
<td>5. Adoption potential</td>
<td></td>
<td></td>
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<tr>
<td>6. Restoration/Conservation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Adaptation and Resilience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Productivity, Economic Performance</td>
<td>10</td>
<td>Increase of land productivity, stocking rate, forage quality Improvement in income and cost/benefit ratio</td>
</tr>
<tr>
<td>9. Water resources</td>
<td>5</td>
<td>Improvement of soil hydraulic properties, reducción de runoffs and polution</td>
</tr>
</tbody>
</table>

### Participation
- Participatory selection of SLUS
- Piloting SLUS under local conditions
- Adjusting and tailoring SLUS
- Insertion in Value Chains and promotion

**Table:** Livestock Sector Actions Towards More Sustainable Food Systems

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3 – 7 October 2022 Dublin Ireland | 12th GASL MSP Meeting (Hybrid)

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2022 Activities

• Participación en el capítulo de América Latina de GASL


• II Global Silvopastoral Congress. Portugal

• Exchange on SPS experience between Colombia and United Kingdom. Rothamsted Research Institute
PARTICIPATION IN THE EUROPEAN JOIN CALL
IMPACT OF GRASSLAND MANAGEMENT ON SOIL CARBON STORAGE

OBJECTIVES:

1) to assess the potential of improved grassland management and Silvopastoral Systems for soil C, nitrogen (N) cycling and soil health across the globe also accounting for climate change effects.

2) to analyze how changes in management allow to maintain existing soil C and potentially lead to increased C sequestration.

3) to provide standardized, high-quality datasets on grassland soil C/N cycling and management- and environmentally-induced soil C stock changes, allowing for ecosystem models benchmarking and the tailored application of such assessment tools to various grassland systems in different regions.

4) to develop a framework of methods (incl. models) for identification of the potential of different grassland management and silvopastoral options to enhance restoration of soil C stocks under changing environmental conditions.
PARTICIPATION IN THE EUROPEAN JOIN CALL
IMPACT OF GRASSLAND MANAGEMENT ON SOIL CARBON STORAGE

SITES WITH SILVOPASTORAL SYSTEMS
1. Colombia. Tropical Dry Forest. CIPAV
3. Argentina. Chaco Region. INTA
4. Argentina. Misiones Province. INTA
7. Spain. Dehesa. UPM
9. New Zealand. AgResearch

3 – 7 October 2022 Dublin Ireland | 12th GASL MSP Meeting (Hybrid)
Este evento es parte de un proyecto financiado por el Departamento de Agricultura de los Estados Unidos (USDA) con el apoyo de la Agenda Global para la Ganadería Sostenible (GASL). Nuestro objetivo es difundir las prácticas silvopastoriles (SSP) en América Latina y el Caribe (ALC), así como comprender los principales obstáculos para su adopción a gran escala en la región y en Colombia.

Con este fin invitamos a miembros del sector público, de la academia, del sector privado, y a productores ganaderos, a presentar información sobre las principales ventajas de los SSP (económicas, sociales y ambientales), las diferentes formas de implementación y gestión de estos sistemas y las diferentes herramientas de política que se utilizan para promoverlos. También, se discutirán las principales barreras para el escalamiento de estos sistemas en el país.

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**Regístrese aquí copie y pegue:**

**3 – 7 October 2022 Dublin Ireland | 12th GASL MSP Meeting (Hybrid)**

### Tabla de Programa

<table>
<thead>
<tr>
<th>HORA</th>
<th>TEMA</th>
<th>PONENTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>PRESENTACIÓN DE GASL + INICIATIVA APOYADA POR USDA + INTRODUCCIÓN AL EVENTO SOBRE SSP EN COLOMBIA</td>
<td>JULIÁN CHARÁ (CIPAV – RED GLOBAL DE SISTEMAS SILVOPASTORILES – GASL)</td>
</tr>
<tr>
<td>9:15</td>
<td>SSEY MITIGACIÓN DEL CAMBIO CLIMÁTICO</td>
<td>JACOBO ARANGO, Alianza CIAT - Bioversity</td>
</tr>
<tr>
<td>9:25</td>
<td>SISTEMAS SILVOPASTORILES Y RESTAURACIÓN A ESCALA PREDIAL Y DE PAISAJE</td>
<td>ALICIA CALLE, The Nature Conservancy</td>
</tr>
<tr>
<td>9:40</td>
<td>EXPERIENCIAS PRÁCTICAS EN SSP:</td>
<td></td>
</tr>
<tr>
<td>10:20</td>
<td>CASO 1 - SSP Y SEGUIMIENTO ALIMENTACIÓN EN ZONAS ALTOANDINAS</td>
<td>PRODUCTOR DE BOYACÁ (tec)</td>
</tr>
<tr>
<td>10:30</td>
<td>CASO 2 - SSP EN EL FREDIEMTE AMAZONICAO</td>
<td>ADRIÁN CHINDICUE</td>
</tr>
<tr>
<td>10:40</td>
<td>CASO 3 - SSP ESCALA EMPRESARIAL</td>
<td>JUAN F. SUAREZ</td>
</tr>
<tr>
<td>10:50</td>
<td>DESEMPEÑO ECONÓMICO DE MODELOS SILVOPASTORILES EN COLOMBIA</td>
<td>Ernesto Reyes, Agrbenchmark - GASL</td>
</tr>
<tr>
<td>11:00</td>
<td>DETERMINANTES Y BARRERAS DE ADOCCIÓN DE PRÁCTICAS SILVOPASTORILES EN COLOMBIA</td>
<td>ANTONIO SOLARTE, CIPAV</td>
</tr>
<tr>
<td>11:10</td>
<td>NAMAS DE GITANDERÁ BOVINA SOSTENIBLE</td>
<td>MANUEL GÓMEZ, FEDESAN</td>
</tr>
<tr>
<td>11:20</td>
<td>POLÍTICAS PÚBLICAS PARA LOS SSP EN COLOMBIA</td>
<td>NELSON LOZANO, MADR</td>
</tr>
<tr>
<td>11:30</td>
<td>PREGUNTAS DEL CHAT</td>
<td>COORDINACIÓN</td>
</tr>
<tr>
<td>11:40</td>
<td>CONCLUSIÓNES Y CIERRE</td>
<td>JULIÁN CHARÁ, CIPAV</td>
</tr>
</tbody>
</table>
Thank you