



**Synergies in integrated systems:
Improving resource use efficiency while mitigating GHG
emissions through well-informed decisions about circularity**

December 12-13, 2022 - Brazil

**SENSE GENERAL MEETING 2022
12-13 December, 2022 - Brazil**

PROGRAMME

**General Meeting and Visit to Embrapa Rice and Beans in Santo Antônio de Goiás – BR1
Benchmark Site**

Anotated Agenda

MON	12 Dec	General Meeting – Day 1	Embrapa Rice and Beans Santo Antônio de Goiás
07:30	08:30	Transfer from Hotel to Embrapa Rice and Beans (25 km)	Bus provided by Embrapa
08:30	08:45	Registration	Meeting Room of Administration Building, everyone
08:45	09:00	Welcome by Head of Technology Transfer (Roselene Chaves) and Introduction to SENSE agenda (Jagadeesh Yeluripati)	Meeting Room of Administration Building, everyone
09:00 (13:00)	10:30 (14:30)	Introduction to the current stage of WP2 and discussion of the further plans (Elena Testani and Claudia Di Bene) <i>Discussion points (coordination: Elena Testani)</i> - Circularity indicators - Example application - Case study identification	Meeting Room of Administration Building
10:30 (14:30)	12:00 (16:00)	Introduction to the current stage of WP4 and discussion of the further plans concerning data collection and possibilities of data exchange (Sabine Zikeli) <i>Discussion points (coordination: Sabine Zikeli)</i> - Introduction of tool - Status quo tasks in WP - Deliverables/Milestones - Linkages between WPs Detailed discussion: - Case studies used for SMART vs. used for participatory approach/knowledge transfer to other WPs (e.g. WP5) - Data flow between all WPs - Data agreement & management (Meta data)	Meeting Room of Administration Building



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MON	12 Dec	General Meeting – Day 1 cont.	Embrapa Rice and Beans Santo Antônio de Goiás
12:00	13:00	Lunch	Restaurant at Embrapa
13:00 (17:00)	14:30 (18:30)	Introduction to the current stage of WP1 and WP3 with quick updates <i>Discussion points:</i> WP1 (Coordination: Carlos Alho): - Real-time data > Database - Data Sharing - Technical Briefs WP3 (Coordination: Jagadeesh Yeluripati): - Sensors with Matt Aitkenhead	Meeting Room of Administration Building
14:30	15:00	Coffee Break	Meeting Room of Administration Building
15:00 (18:30)	17:00 (21:30) Including confraternization at 17:00	Discussion on the overall project, with focus on synergy among WPs, planning and design in the coming year 2023 (WP5) <i>Discussion points (Coordination:, Jagadeesh Yeluripati, Carlos Alho):</i> - Data flow among WPs - WP integration - Publications - Website & Social Media - Outreach & Stakeholder engagement - Schedule 3-monthly meetings - AR & UY meeting in Oct - Administrative issues	Meeting Room of Administration Building
17:30	18:30	Transfer from Embrapa Rice and Beans to Hotel	Bus provided by Embrapa



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TUE	13 Dec	Field visit to Fazenda Capivara in Sto. Antônio de Goiás - BR1 Benchmark Site (morning) General Meeting – Day 2 (afternoon)	Embrapa Rice and Beans Santo Antônio de Goiás
07:30	08:30	Transfer from Hotel to Embrapa Rice and Beans (25 km)	Bus provided by Embrapa
08:30	12:00	<p>Visit at BR1, Benchmark Site (Coordination: Beata Madari)</p> <p><i>Discussion points (Presenters filiations: Embrapa Rice and Beans and Agrobiology, LAPIG/Federal Univ. of Goiás, Univ. de Brasília):</i></p> <ul style="list-style-type: none"> - Integrated crop-livestock systems in BR policies (Pedro Machado) – 10 min. - Description of the site, history (Beata Madari) – 10 min. - Current rotation, some previous results - soil C stocks, GHG emissions (Márcia Carvalho) – 10 min. - Biological N fixation in common-bean (Anderson Ferreira) – 10 min. - Sampling design and measurements in SENSE (Beata Madari) – 10 min. - Demonstration – spectral sensors coupled with VANTs (Manuel Ferreira) – 10 min. - Net ecosystem gas exchange (Selma Maggiotto) – 10 min. - Soil moisture and temperature analysis – sensors for near-realtime monitoring (Bruno Alves) – 10 min. - Tropicalization of DNDC (Bruno Alves) – 10 min. 	Experimental Site
12:00	13:00	Lunch	Restaurant at Embrapa
13:00 (17:00)	13:30 (17:30)	Technical Session: MapBiomass By Manuel Ferreira, LAPIG, UFG	Meeting Room of Administration Building
13:30 (17:30)	14:00 (18:00)	Technical Session: Estimating biomass carbon using multispectral images coupled to VANT (experience in BR1 site) By Gabriella Arruda Lima, LAPIG, UFG	Meeting Room of Administration Building
14:00 (18:00)	16:30 (20:30)	<p>Cont. Discussion on the overall project, with focus on synergy among WPs, planning and design in the coming year 2023 (WP5)</p> <p><i>Discussion points (Coordination: Jagadeesh Yeluripati, Carlos Alho):</i> Based on the discussions on Day 1, this session will be dedicated to the concrete planning of ptoject execution: Who is responsible for what (deliverables and responsible)</p>	Meeting Room of Administration Building
16:30	17:30	Visit to laboratories or Cont. Previous session	Lab. or Meeting Room of Administration Building



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17:30	18:30	Transfer from Embrapa Rice and Beans to Hotel	Bus provided by Embrapa

Visit to Embrapa Agrosilvopastoral in Sinop, Mato Grosso – BR2 Benchmark Site

WED	14 Dec	Field visit to case study BR2, Benchmark Site	Embrapa Agrosilvopastoral Sinop, Mato Grosso
09:15 (take off)	13:20 (landing)	Travel to Sinop, Mato Grosso	By air, in Sinop transfer from airport to VIE Hotel (R\$ 281.00 per night) taxi
14:30	17:00	Visit to E. Agrosilvopastoral OR visit to the Pires Teles river	

THUR	15 DEC	Field visit to case study BR2, Benchmark Site	Embrapa Agrosilvopastoral Sinop, Mato Grosso
7:30	7:45	Transfer from Hotel to Embrapa Agrosilvopastoral	Embrapa vehicle
7:45	8:00	Registration	Meeting Room of Administration Building
8:00	9:00	Reception by head of Embrapa Agrosilvopastoral	Meeting Room of Administration Building
9:00	11:30	Visit to Laboratories	Building of researchers offices and laboratories
11:30	13:00	Lunch	Restaurant at Embrapa
13:00	17:00	Field visit to integrated systems	Experimental farm of Embrapa Agrosilvopastoral
17:00	17:30	Transfer from Embrapa Agrosilvopastoral to Hotel	Embrapa vehicle

WED	16 Dec	Field visit to case study BR2, Benchmark Site	Embrapa Agrosilvopastoral Sinop, Mato Grosso
04:50 (take off)	07:30 (landing)	Leaving Sinop to Bahia through Brasília	Transport to airport by taxi. Rent car in Brasília airport to Fazenda trijunção em Bahia

In Sinop time (GMT-4) is one hour less than in Goiás and Bahia (GMT-3)



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Visit to Fazenda Trijunção in Guará e Santa Luzia, Bahia - BR3 Participatory site

WED	14 Dec	Visit to Fazenda Trijunção in Bahia - BR3 – Participatory Site	Fazenda Trijunção Guará and Santa Luzia
08:00	17:00	Travel to Fazenda Trijunção	Rented off-road car

THU	15 Dec	Visit to Fazenda Trijunção in Bahia - BR3 – Participatory Site	Fazenda Trijunção Guará and Santa Luzia
08:00	17:00	Interview with the manager of Trijunção Farm	Rented off-road car, Trijunção Farm in Guará

FRI	16 Dec	Visit to Fazenda Trijunção in Bahia - BR3 – Participatory Site	Fazenda Trijunção Guará and Santa Luzia
08:00	17:00	Conservation Program - Wildlife of the Farm	Rented off-road car, Trijunção Farm in Santa Luzia
08:00	17:00	Group in Sinop travels to Trijunção Farm	By air and rented off-road car, Trijunção Farm in Guará

SAT	17 Dec	Visit to Fazenda Trijunção in Bahia - BR3 – Participatory Site	Fazenda Trijunção Guará and Santa Luzia
08:00	17:00	Field visit to CBC e CCN	Rented off-road cars (3), Trijunção Farm in Santa Luzia
18:00	22:00	Barbecue	Trijunção Farm in Guará, everyone

SUN	18 Dec	Visit to Fazenda Trijunção in Bahia - BR3 – Participatory Site	Fazenda Trijunção in Guará and Santa Luzia
08:00	14:00	Travel from Fazenda Trijunção to Brasília	Rented off-road cars (3), everyone
after	14:00	Travel from Brasília to Goiânia	Rented off-road car (1)