

Revised Agenda of the MAGIC Meeting in Wageningen – March 29-31

March 29th (Wednesday)

Morning:

9.00 – 10.30 Presentation and discussion of the pilot case study of Almeria – Violeta

11.00 – 12.00 **Hands on without computers**. Practical exercise to build a multi-scale representation of a vegetable production system at regional scale.

Afternoon

13.00- 15.30 Presentation and discussion of the animal production pilot case study in Scotland – Mario and Ansel

16.00-18.00 **Hands on without computers**. Practical exercise with the animal production analysis tool - Mario and Ansel

March 30th (Thursday)

Morning

9.00 – 10.30 - **Hands on exercise using the case study of Violeta** (farming system)

10.30-12.00 – **Hands on exercise using the case study of Juan** (animal production system)

Afternoon

13.00- 15.00 **Hands on without computers**. Participatory exercise on how to build applications of the MuSIASEM approach to the tasks of WP4 – illustrating grammars and the indicators used for the different tasks * the list of tasks in WP4 is in the next

March 31st (Friday – two parallel sessions)

Morning – (seniors) Discussion on the specific applications of MuSIASEM to generate a Quantitative Story Telling in relation to the various Tasks of WP4 (T.4.3, T.4.4, T.4.5, T.4.6)

Morning – (PhD students) Discussion of doubt about practical aspects of their PhD

List of TASKs for Quantitative Story-Telling in WP4

T.4.3 - Grammar for the State-of-the-play end use analysis NUTS1 (or NUTS2) level

8-10 countries: (i) **dependence on external resources**; (ii) **balance of trade**; (iii) **Internal constraints** (socio-economic viability); (iv) **social desirability**

T.4.4 – Global drivers

Starting from existing scenarios of **future food, water and energy requirement** the Nexus Information System is used to generate **simulations** of the effect of **existing drivers** on **global metabolic patterns** in the future

T.4.5 – Planetary Boundaries

Analysis of the implications of the existence of **planetary boundaries**. Starting from an analysis of planetary boundaries the Nexus Information System will be used to check the DPSIR (*Driving Forces, Pressure, State, Impact, Response*) of different types of SES in the world

T.4.6 – Externalization

Analysis of the effects of **EU externalization** of pressure and impact to other SES because of imports. Integration of existing quantitative methods within the MuSIASEM accounting scheme to assess: (i) external constraints - water footprint for embodied water; ghost land for agricultural production; stock depletion and GHG emissions associated with imported energy; (ii) internal constraints – virtual labour and technology of other SES used to support the economy of considered countries.
