

2<sup>nd</sup> Workshop of the EWRS WG on Weed Mapping  
Jokioinen, Finland 21-23 September 2011

Outcome of World Café Round Discussion Part 2  
22<sup>nd</sup> September 2011 concerning the following topics:

*What are the databases for our maps,  
how do we validate and document our data  
and how do we finally map weeds  
independent of national borders?*

## Current data bases of weed maps

Various types of data used to map weeds:

- Relevé/ Braun-Blanquet (non-linear)
- Percentage coverage (linear scale)
- Density (Number of plants per species/area)
- Presence/absence data
- Frequency
- Uniformity
- Abundance

Other aspects to consider concerning data:

- Co-ordinate system used when determining location of weed data
- Time of survey (before spraying, after harvest etc.)
- Sampling technique (W shaped, random, stratified random etc.,)
- Scale

## Current data bases of weed maps

Actions needed concerning standardization of data to make data sets compatible:

- Check references and study several data sets to determine relation between various types of data and make transformations possible
- Definitions needed
- File with description should accompany data
- Appoint someone to sort out (EU funding)

## Possible ways to validate data

- Swedish approach: (Using existing data for determining statistical sound way of future surveys)
- Models (for example use part of large dataset to validate other part)
- Feedback to parties involved (extension services, researchers, farmers)

## Data processing and visualization

- View raw data, and have possibility to interpolate
- Spatio-temporal analysis: Sound application of interpolation techniques needed
  
- Work together with other EWRS Working Groups were possible (biodiversity, resistance, invasive species).

## Crossing borders

Issues to be tackled:

- Compatibility of data (type, scale, co-ordinate system)
  - Ownership
  - Confidentiality
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- Close co-operation between neighbouring countries will facilitate mapping across borders.