Breakout Groups Day 1
VERY informal summary

Group 1

- **What are the needs of National Mapping and Cadaster Agencies (NMCA) from Volunteerd Geographic Information ? What are the needs of industry from VGI?**
  - There is a need for more advanced crowdsourcing (for ex: mapping of polygon than a pointer)
  - A Legal view on VGI regarding intellectual property rights (who is the owner?) is missing from research.
  - There must be a reflection about a sustainable business model take integrates open data and VGI.
  - When you talk about collaboration, you can also talk about collaboration among levels and among organization. And a taxonomy of crowd members.

Group 2

- **In terms of collaboration - what are the needs of the VGI community from NMCAs?**
  - Clear feedback mechanisms
  - VGI tool chain should first look at what's already existing and seek cooperation. But support from NCMA's is needed.
  - Accessible (open data) services
  - Research Topics
    - Licensing
    - Support from NCMA's in VGI tool chain
    - Feedback mechanisms
    - Quality labels of NCMA data

Group 3

- **Practically, how do NMCAs and VGI communities work together? Tools, processes, procedure**
  - budget cuts need crowdsourcing, but this requires change of thinking
  - business models vary greatly across countries and NMAs
  - not get to hung up about OSM, NMAs should think about business models that open up data, and then see what OSM does with it
  - Currently, there still seems to be a lot skepticism on both sides of the aisle - who is going to make the first step?

Group 4

- **How can VGI and crowdsourced spatial data assist in the work of NMCA's?**
    - In UK mid-scale data is used by OSM, large scale is still licensed. There is no agreement between OSM and Ordnance Survey, but OSM is using the data of OS.
    - Now all changes are captured in 98% of the time within 6 months, sounds fast, but is nowadays slow.
    - Using crowd photographs to assess land cover mapping, is not yet used in a mature way. You also will get a bias
    - Ex: let the crowd creating preferred walking paths by letting the crowds say where the paths should be.

Group 5

- **How can sources of VGI be successfully combined with NMCA/government/other data?**
    - Combining the data is one of the biggest problems in the future. Unintended (positive and negative) consequences
    - Should the goals change for NMCAs? Should they become a gatherer of all crowdsourced data or VGI? Not necessarily no longer be the sole producers of data - a role of quality assessment of this crowdsourced data or VGI.
    - The crowd must have the possibility to take part - if you build it they will come.

Group 6

- **How do we improve (or measure) the quality of VGI data for NMCA needs?**
  - Question assumes that quality is a problem.....
  - first identify what quality is needed, then measure, then decide what has to be improved
  - this based on "use by use" case, depending on the goal you use the data for (different quality for different uses, for different parts of the data)
  - This leaves unanswered the question HOW to improve...

A more formal writeup (anonymised) will be availble soon on the website