Quality Indicator

QA4EO Principle

Data and derived products shall have associated with them a fully traceable indicator of their quality

Traceability

Applicable to all EO activities
Including in-situ & modelling

Supported by an initial set of key guidelines – based on NMI best practise

Initiated (2008) by “space-community” on behalf of GEO to facilitate harmonisation and interoperability

– Quality does not have to be “best” simply quantified

- 2012 NPL CCM (supported by UKSA) took on role of QA4EO secretariat

Led strategy

http://QA4EO.org
Progress:

• New-look website (Http:www.QA4EO.org)

• Establishment of concept and template for case study based promotion of Cal/Val/QA to different audiences

• Developed ‘show case for CEOS SIT workshop
  • Support writing of examples

• Developed generic downloadable poster as community resource
  • Presented at conferences

• Promote concept across CEOS, GEO, (ESA/EU) etc
  • Included in ESA CCI
  • Also EU Copernicus and climate service (QA4ECV proj
  • Now being reported on by many space agencies
  • Presented at conferences
New-look website up online:

- Website redesign completed
- It has been updated and is now more dynamic and interactive
- New case studies page
- Comprehensive documentation
- Links to other international initiatives
- Going forward - Will be developing a graphical ‘easy access’ to guidelines and key QA information
- Expand scope and awareness to broader GEO SBAs
Case studies:

- Case studies corresponding to best practice examples are published online.
- Split into three tiers and three broad categories.
- Categories include software/methods, datasets and initiatives.
- Higher ‘levels’ correspond to greater detail for different target audience.
- Focus on getting examples of all three levels of detail.
Case studies: Concept

A tiered system based on target audience

- Show and tell
- Promote work of good QA
- Quick wins

Level 1: e.g. policy makers, managers, funding bodies, etc.

Level 2: e.g. scientists in similar fields who understand the problem

Level 3: e.g. scientists who have a similar product/software/dataset/etc.
• Promotional poster established for presentation at international conferences

• Implementation and awareness across worlds space agencies increasing
  • CEOS work plan to encourage agencies to regularly report on their progress
  • Work with GEO secretariat to build broad based implementation across all EO including in-situ
  • Develop broad range of examples to illustrate means of implementation

• Establish a reporting template to help ‘self assessment’ of Cal/Val QA based on concepts of ‘maturity matrix’
Next steps

• Need case studies (best practise, Cal/Val successes, when things went wrong/well,
  – Means to help promote need and value of Cal/VAL

• Broader use of name (QA4EO) by all agencies when referring to key principles: ‘Documented evidence of traceability to international (SI) standards with full uncertainty budgets’

• QA4EO secretariat (there to help develop publicise story line).