

CCQM IAWG mid-term strategy review



1. Baseline

- CMC categories 1, 2, 5, 8, 9, 10, 11, 12, 13, 14 supported
- Wide variety of analyte types, concentrations and matrices
- Applications range from classical to state of the art
- At least 10 different measurement techniques in use
- > 60 key comparisons completed or in progress
- Currently about 2050 inorganic CMCs
- 43 institutes with IAWG contact persons (40-65 / meeting)
- Continuing need to support new institutes

2. Key aspects of 2012 strategy

- Efficient and effective support of CMC review
 - ✓ – Flexible participation in KCs, none compulsory
 - ✓ – Average of 3-4 KCs pa (in total, not per institute)
 - ✓ – IAWG questionnaire and database to inform KC planning
 - ✓ – Benchmarking comparisons
 - ✓ – Record card of NMI/DI participation in KCs
 - ✗ – Core capability templates
- Metrological traceability
 - ✓ – purity of metals
 - ✓ – Isotope ratio delta values
- ✓ Measurements for evolving technical areas



3. Focus of IAWG 2016 mid-term review

- Incremental improvement, not wholesale change
- Efficient and effective support of CMC review
 - Enhanced record card with graphical display
 - Revision of core capability approach
 - CCQM policy for broader scope CMCs
- Metrological traceability
 - Purity of salts
 - Further work on isotope ratios
- Measurements for evolving technical areas



4. Evolving technical areas

- Ultra low analyte levels
- Labile inorganic or organo-metallic species
- Quantitation of metal- and heteroatom-containing proteins
- Measurements of nanoparticles, including single particle counting and number concentration
- Solid sampling for quantitative analysis and/or quantitative elemental imaging
- Matrix specific isotope ratio measurement standards or reference materials



5. Revision of core capability approach

- Sub-group established to revise core capability approach
- Key principles to address
 - Minimise resource/documentation for CMC submission/review
 - Graphical summary of information preferred
 - Distinctions between techniques and matrices still essential
- CMC submission
 - Core capability tables not required, only record cards
 - Capability related information embedded in KC reports
- Broader scope CMCs
 - IAWG will define limited range based on scope of KCs
 - Need for efficient support of ‘conventional’ CMCs remains