



## CSLF PIRT Meeting

# Review of Plan for Updating the CSLF Technology Roadmap

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Bergen, Norway

11-14 June 2012

**Agenda 9**



# Technology Roadmap

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- Module 0: CSLF
  - Purpose of CSLF and context - *known*
- Module 1: CCS Status
  - Fundamentals of CCS - *widely understood now*
  - Available many sources
- Module 2: Countries
  - Web-based – continuing in different format
- Module 3: Gap Identification
  - Role now fulfilled by new TG TF's
    - Focussed on current technological gaps in CCS
    - Specific technology-based reporting
- Module 4: TRM
  - Charter & Vision - discuss



# Technology Roadmap: Evolution (1)

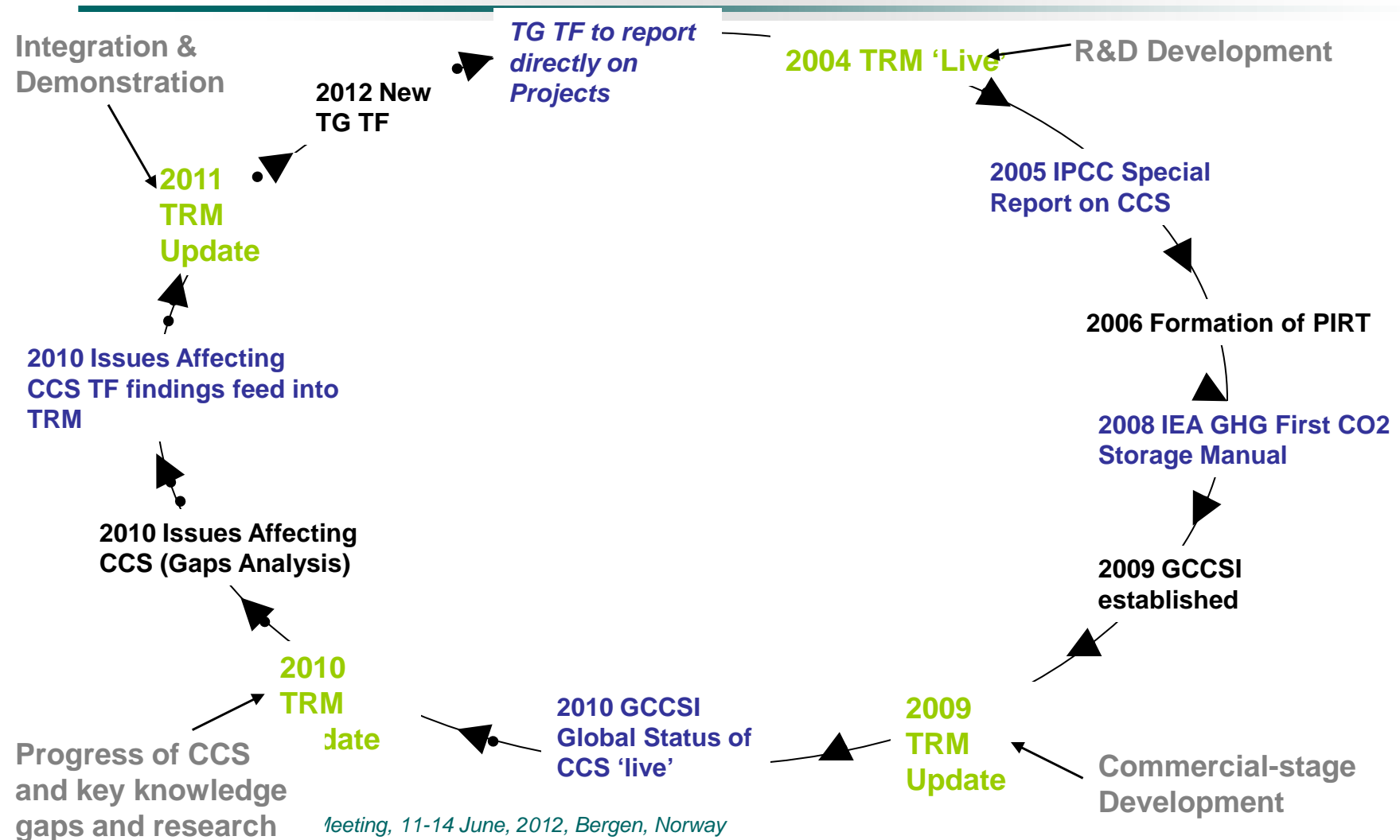
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- Attempts to answer the question, “What does the CSLF Technical Group hope to accomplish by 2013, and how do we get there?”
- Incorporates vision and goals of the CSLF and the Technology Group.
- Integrates roles and responsibilities of CSLF Technical Group.
- Outlines key technical obstacles identified by various countries at the CSLF inaugural meeting, and potential projects in carbon sequestration.

George Lynch, CSLF Secretariat, Rome 2004

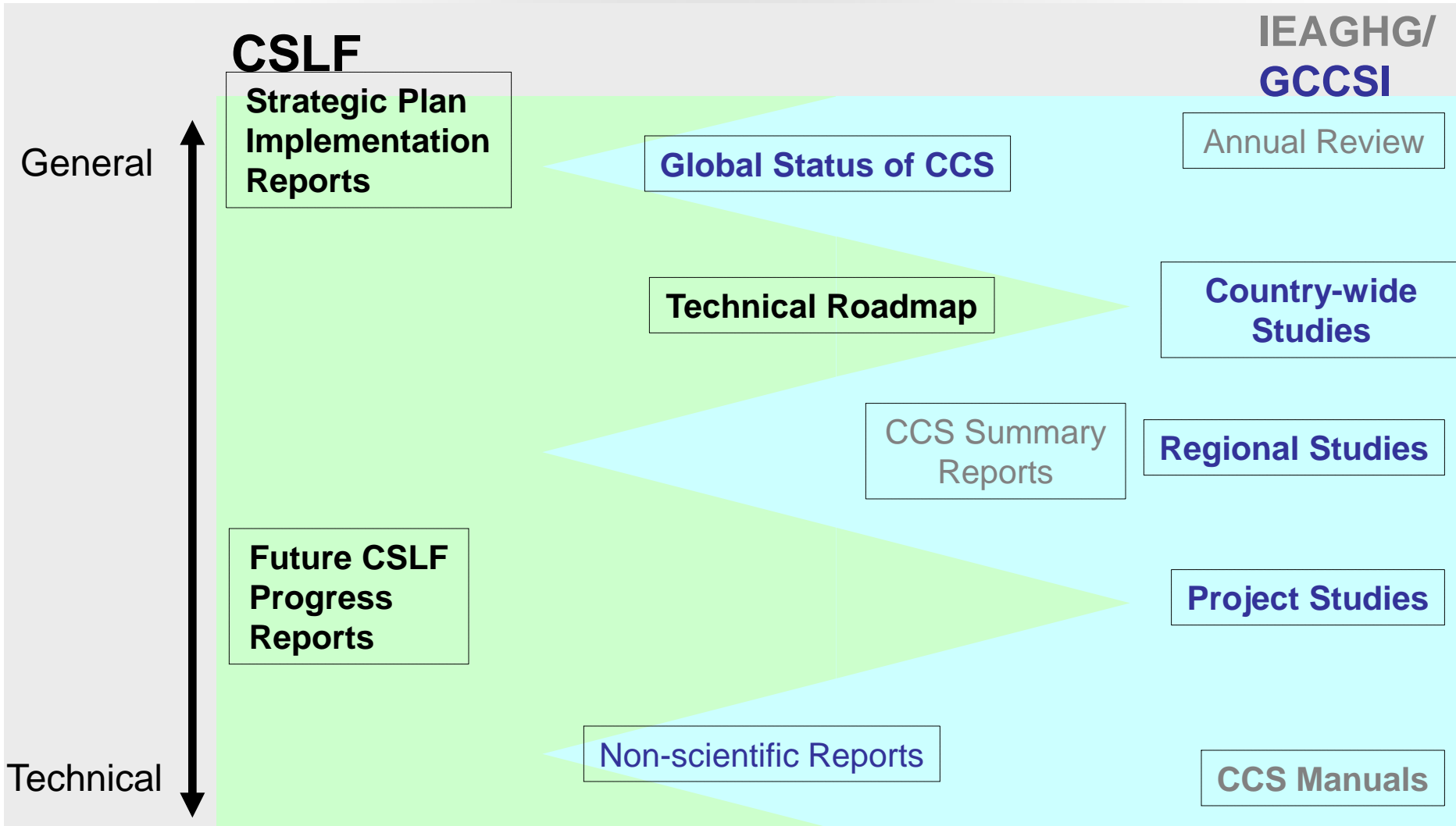


# Technology Roadmap: Evolution (2)





# Technology Roadmap: Evolution (3)





# Technology Roadmap: Future

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- Are we beyond the TRM in current mode?
  - Is general reporting CSLF role? Other agencies
- Obsolete?
  - Superseded by the new TG TF
  - Gather data from CSLF-recognised Projects and report to TG
- Other documents (CCS Fundamentals)
  - IEAGHG: from fundamentals to technical
  - GCCSI: from general policy to global overviews



# CSLF Progress Report

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- New TG Task Forces:
  - Focus on specific technologies identified as technology issues in CCS
  - Focus on reporting on progress on technology issues in CCS
  - Focus future CSLF-projects



# The Technical Group Task Forces

Action Plan 1	<b>Technology Gaps Closure</b>
Action Plan 2	<b>Best-Practice Knowledge Sharing</b>
Action Plan 3	<b>Energy Penalty Reduction</b>
Action Plan 4	<b>CCS with Industrial Emissions Sources</b>
Action Plan 5	<b>CO<sub>2</sub> Compression and Transport</b>
Action Plan 6	<b>Storage and Monitoring for Commercial Projects</b>
Action Plan 7	<b>Technical Challenges for Conversion of CO<sub>2</sub> EOR to CCS</b>
Action Plan 8	<b>Competition of CCS with Other Resources</b>
Action Plan 9	<b>Life Cycle Assessment and Environmental Footprint of CCS</b>
Action Plan 10	<b>Risk and Liability</b>
Action Plan 11	<b>Carbon-neutral and Carbon-negative CCS</b>
Action Plan 12	<b>CO<sub>2</sub> Utilization Options</b>





# CSLF Progress Report

- New TG TFs to derive information for *specific, focussed-technologies* from:

- CSLF-recognised Projects
- worldwide CCS progress

Build the 'Progress Reports' in real-time for policy-driven decision making for CSLF Ministers

**(core goal of CSLF)**