



# **SEDD – Our Vision**

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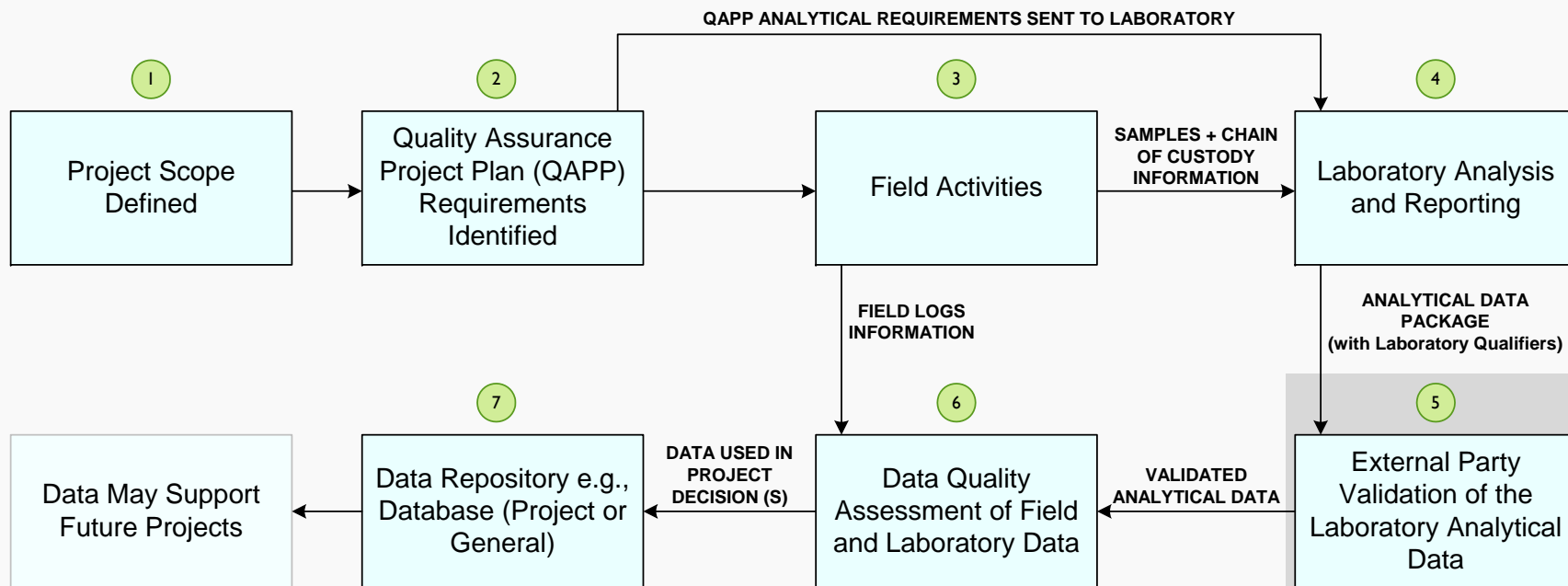


## SEDD – Our Vision

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# General Environmental Data Flow





## EPA's Vision

- To become the leader in the development and implementation of paperless data generation, transfer/exchange, review and management (input and retrieval) systems for all types of project data (e.g., field, chain-of-custody, analytical).



## EPA's Vision - 2

- It is intended that this data be formatted in a non-proprietary format (e.g., XML).
- It is also envisioned that this approach be promoted to other agencies/programs.



## CLP Use of SEDD

- SEDD had been in use at the Stage 3 level since 2005 for the CLP organic program.
- SEDD has been in use at the Stage 2b level since 2010 for the CLP inorganic program.
- SEDD is currently being used for the NRAS (e.g., dioxin) program at the Stage 2a level.
- An automated contract compliance screening and review tool (EXES) was concurrently developed.



## Benefits of using SEDD

- These automated tools have saved one EPA Region \$1.3 M in FY09 and \$1.0M in FY10 in data review costs.
- New methods and Modified Analyses are readily accommodated within EXES at minimal cost.



## The Future of SEDD Within the EPA

- The CLP will continue to use SEDD, developing more and better tools.
- A five year plan has been developed for SEDD.
- The FEM (Forum on Environmental Measurements) is now promoting the use of SEDD within EPA.



## Why EPA Supports SEDD

- SEDD's common structure and Data Element Dictionary make it ideal for the variety of data reported to the agency.
- SEDD Valid Values used are based on international standards as applicable.
- SEDD can readily link the final reported results back to the original data.



## Current Programs Using SEDD

- EPA's Contract Laboratory Program
- EPA's Great Lakes National Program Office
- USACE FUDS/MMRP Program
- USDOE Contractor



## The Future of SEDD

- Expansion of SEDD beyond use for environmental data.
- Stage 4 has now been successfully demonstrated that would enable the capture and reporting of all raw instrument data that could be reviewed beyond the original hardware/software used to generate it.

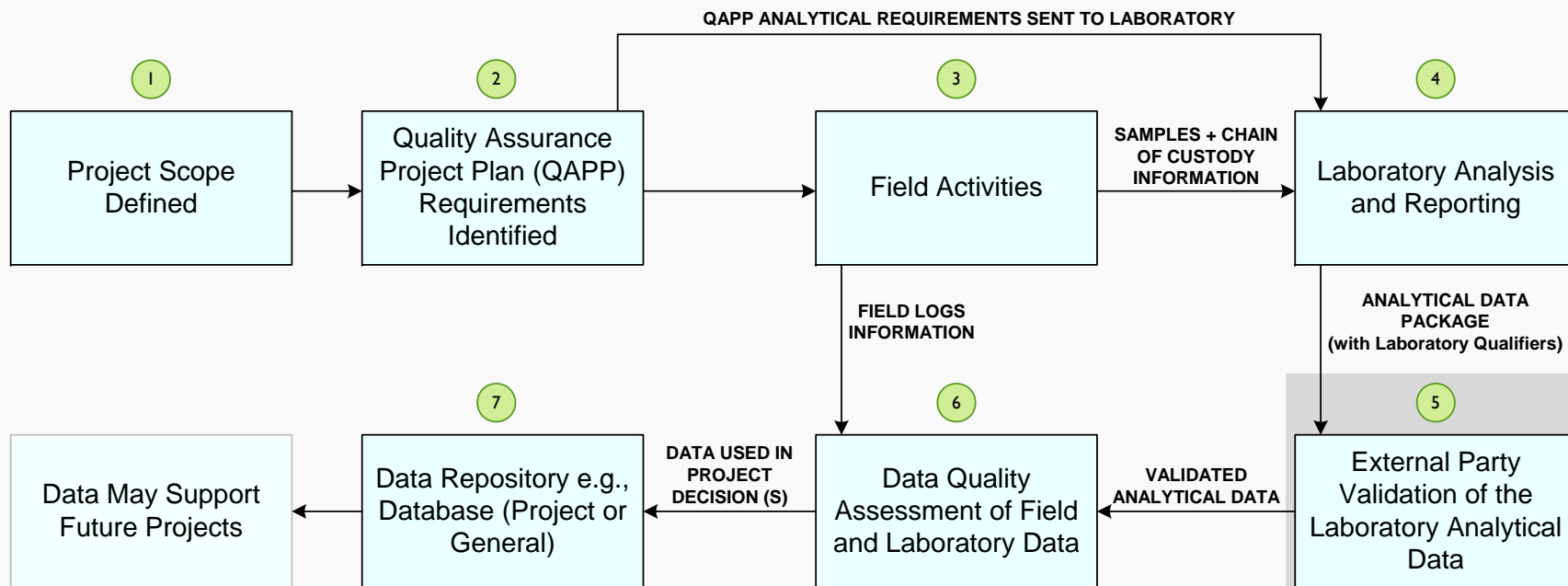


## The Future of SEDD - 2

- The generation and use of SEDD and AnIML files were discussed with the instrument vendors at Pittcon 2011.



# General Environmental Data Flow - Going Electronic





## General Environmental Data Flow – Needs for Going Electronic

- Standard formats for electronic project requirements.
- Standards/templates for field information.
- Standard formats for reporting analytical data.
- Standard procedures for reviewing analytical data.
- Standard formats for reporting reviewed analytical data



## Guidance for Going Electronic

- SEDD Web Site:  
<http://www.epa.gov/superfund/programs/clp/sedd.htm>
- Guidance for Labeling Validated Analytical Data:  
<http://www.epa.gov/superfund/policy/pdfs/EP A-540-R-08-005.pdf>



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