**Collaborative Development of an Open Source Repository for Standardized Analysis Using Cloud Services**

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The objective of this poster is to describe the process, platform and progress of implementing an open source repository for the collaborative development of specialized programs to be used as analytical tools for clinical trial research, reporting, and analysis through cloud services.

**Method:**

PHUSE formed a standard script working group in March 2012, consisting of members from FDA and Industry. A web-based open-source script repository has been created for collaborative development. A PHUSE Scriptathon event in March 2014 was used to test out the cloud implementation.

**Collaboration Key to Future Success**

**Determining Factors:**

- Entrepreneurial Spirit
- Information Technology
- Creativity and Innovation
- Open access
- Cross-cultural Communications
- Standardized process including documentation and metadata
- Interpersonal Skills

**Current work reality:** industry, regulatory agencies, and academics work in silos

**Collaboration What is needed?**

The development of commonly accessible tools and analysis standards is the first step to build a truly collaborative environment.

**Building a collaborative environment and open repository is the foundation for successful and sustainable development of analysis scripts.**

**Conclusion**

The goal of the standard script working group is to produce recommendations and establish a platform for the collaborative development of specialized programs to be used as analytical tools for clinical trial research, reporting, and analysis. This platform includes:

- Identification of areas that can benefit from a standard set of analyses
- Development of recommendations for analyses, tables and figures within a topic area
- Creation of a process and guidelines for documentation and management of scripts
- Incorporation of data standards whenever feasible

From more than two years of experience with the standards scripts group, we can conclude:

- Google Code provides a scalable, reliable, and fast collaborative development environment for developing and sharing standard scripts and documents for data transformations and analyses.
- It is mutually beneficial to both the industry and the regulatory authorities if an open source repository is available for storing and developing standard scripts.
- It is a good practice to use the white papers defining the cross-industry analysis and reports based on CDISC standards.
- The open source repository can be implemented through cloud services; this has been tested in the Scriptathon event.
- Coming to mutual agreed standards is a slow process. Work together openly and collaboratively, and we can achieve more than what we have hoped for!

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**References**

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