

EDDI 2013

5th Annual European DDI User Conference
December 3, 2013 – December 4, 2013

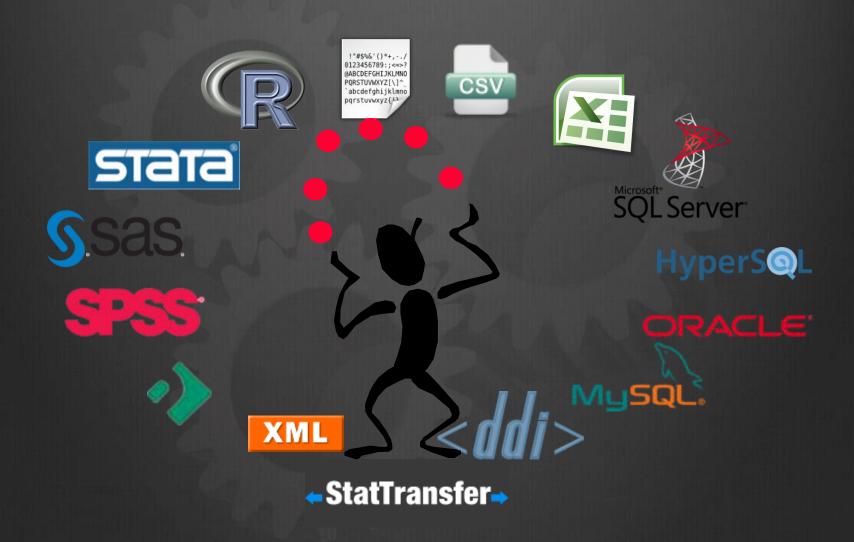
Paris, France

Metadata Technology North America http://www.mtna.us http://www.openmetadata.org mtna@mtna.us





The <Meta>Data Dance







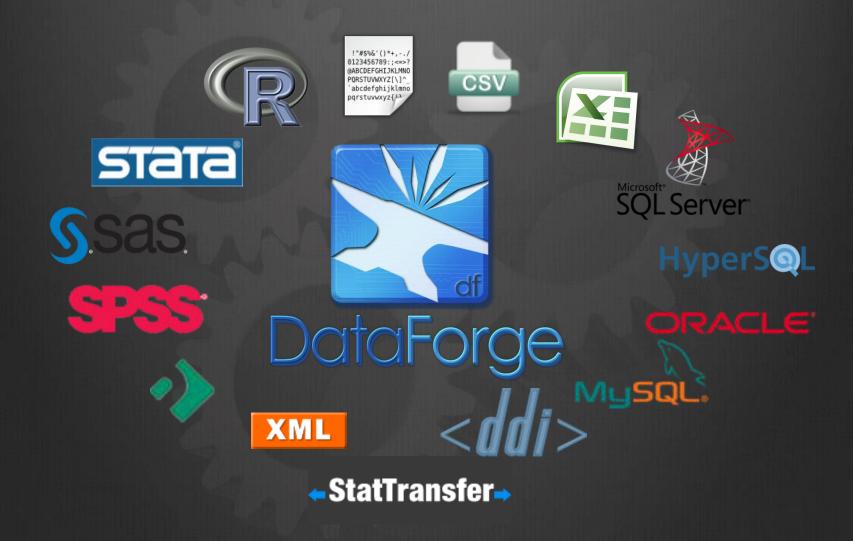
The <Meta/>Data Dance







The < Meta > Data Dance







DataForge

- Tools to facilitate statistical/scientific data management
 - Complement existing tools (not replace)
 - Facilitate adoption of standards and promote best practices
 - Alleviate the need to master complexities of metadata standards, technologies
- Vision: web based services (cloud users), stand alone desktop /server products (agencies/enclaves), libraries (developers)
- Broad Target audience: Data Producers / Manager / Researchers / Users
- DataForge Today (lean model):
 - Simple desktop based tools
 - > **SledgeHammer** Data/metadata transformation
 - ➤ LavaCore Java library
 - **Caelum** Reporting / Publication
 - ➤ **Asmurex**: ASCII Multi-Record Exctraction tool
- DataForge Tomorrow:
 - ➤ DataForge Online, Web Services, Desktop w/UI, Java Library





DataForge



- Data Liberation
 - Unlock from proprietary formats, turn into open data
 - Produce metadata + convert data into standard ASCII formats
- Open <Meta>Data Integration
 - ➤ Generating scripts for loading into stats packages, databases, big data engines, cloud
 - Use with open systems / environments







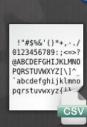










































- Challenges
 - > Read proprietary formats
 - Data integrity
 - > ASCII optimization
 - Cross package formatting issues
 - > SQL Database limits (columns, indexes, views)
 - Performance (Timings, size, memory usage)
 - **>** ...





- Key Features
 - Input: SPSS, Stata, SAS/Syntax+ASCII, ASCII+DDI-C / DDI-L, ASCII+SSS 1.1/2.0, ASCII+StatTransfer
 - ➤ Data Out: Fixed w/optimization, CSV, Delimited
 - Metadata Out: DDI-C 1.2.2/Nesstar/2.1/2.5, DDI-L 3.1-RP/3.1-SU/Colectica, DDI-L 3.2-RP, DDI-L 3.2 SU, Triple-S 1.1/2.0
 - ➤ Summary Stats: Min / Max / Valid / Invalid / Mean, StdDev / Variance / Frequencies, Weighted*, Save in CSV*.
 - Scripts Generators: SAS, SPSS, Stata, R, Mysql, Oracle*, MS-SQL*, HSQL*, Google BigQuery*, HP/Vertica* + dimension/lookup tables, indexes/foreign keys*
 - Command line interface
 - See User's Guide at http://goo.gl/9xukB





- Key changes since IASSIST 2013
 - Desktop User Interface
 - > SAS (Win+DSRead), handling of missing values, DDI 3.2, lots of tweaks
- > Editions
 - > Freeware
 - Community: 100 variables / 1,000 obs.
 - Registered (free): 500 variables / 5,000 obs. (or contact us)
 - Available today (Candidate Release)
 - Pro/Enterprise (1Q2014)
 - > No data size limits
 - Weighted stats, save stats, classification auto-harmonizer, batch mode, add database formats & star schema
 - Subscription: \$29/3-month or \$99/year, Perpetual: \$279
 - > LavaCore:
 - Currently internal only, planning for OEM

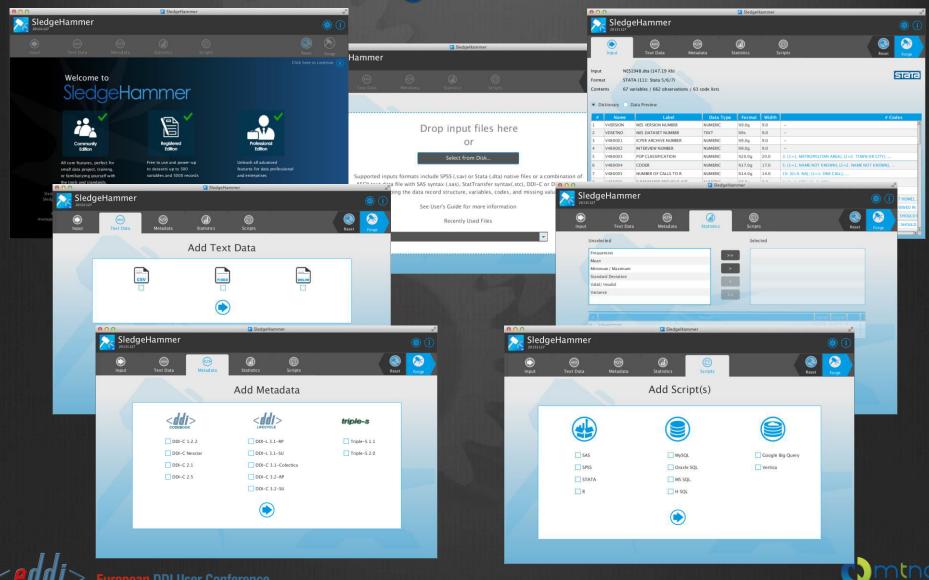




- Future Features (demand driven)
 - Support additional input/output formats
 - Additional ID generators
- DataWeaver (data transformation)
 - > Produce data subset
 - > Synthetic data generators
 - Disclosure control
- DataForge Online (2014)
 - > Free and pay as you go services
- DataForge Services (available today)
 - Community support in Google groups
 - MTNA: pay as you go / annual support, custom developments
 - > IDMS: data/metadata management / processing







Products



SledgeHammer

Data/metadata Management (free/paid)



SledgeHammer--BI

Integration with Business Intelligence (internal/projects)



Caelum

Documentation XML Transform (free)



Survey Manager

DDI 3.1 Editor for simple projects or training (OSS)



DataWeaver

Data subsets, derivation, transforms (internal/project)



DMP Editor

Simple editor for Data Management Plan (OSS)



Asmurex

ASCII multi record Extraction (free)



CMS

Classification Management System (2014Q3 / paid)





Services

Expertise

Expert Advisory and Technical Assistance

- Establishment of corporate data management strategies
- Adoption of metadata standards and related best practices
- Development of technical specifications for data management infrastructure
- Statistical and scientific data management technologies

Training

Training in and Support for:

- Data Documentation Initiative (DDI)
- Statistical Data and Metadata Exchange (SDMX)
- Generic Statistical Business Process Model (GSBPM)
- Generic Statistical Information Model (GSIM)
- General data and metadata management support

Development

Application Development

- Statistical and Scientific data management solutions
- Solutions include production, archiving, dissemination, analysis
- Web-based data delivery solutions (web services, portals, secure environments)
- Standards-based data management tools/utilities

Technologies

Leverage New Technologies

- Help introduce new state-of-the-art technologies to the community and customers
- Deployment, hosting, and management of cloud-based infrastructures







http://www.openmetadata.org/dataforge/sledgehammer

DEMO

