GDM Company
and Products
Overview

Gylling Data Management, Inc.
GDM Products Overview

- ARM: plan, create, manage, analyze, and report experiments (trials)
- ST: Summary Across Trials, to analyze across multiple experiments
- TDC: Tablet Data Collector, to collect, verify, analyze experiment data on tablet
- ATD: ARM Trial Database, to organize and store trials in SQL server database
GDM Company Overview

- GDM Company
- GDM Clients
- Software Support and Licensing
- Benefits Using ARM for Research Management
ARM: Manage Protocols and Trials

Plan, create, manage, analyze, and report experiments
ST: Summary Across Trials

- Optional ARM add-in to summarize a trial series
- Summarize selected entries/treatments across a wide range of trials
- View and arrange summary on a grid
- Export the report to Word, Excel, PDF
- Data graphs of across-trial means
- Export raw data to other statistics software
Special TDC Features Added to ARM by TDC Activation License

- Tablet Data Entry
- Tablet Image Capture
- Tablet GPS
ATD: ARM Trial Database

- Optional ARM add-in
- Define queries to search and select trials of interest
- Report trial information in Word or Excel documents that are linked to the database
- Permanent storage of trial information
- Share ARM trials across a network
GDM Company Overview

- Company established in 1982, currently 7 employees in US
- 9 Representatives in Europe, Central and South America, Asia; all experienced researchers
- ARM used in ~ 85 countries by 8000+ clients in ~ 10 language translations: Europe & North = 37%, North America = 38%, Asia & Middle East= 13%, South America = 10%
Clients using GDM Software

- > 200 university and government organizations

- Nine of the world's top 10 global agrochemical companies

- Additional manufacturers:
  Chemtura, ISK Biosciences, Novozymes, Nufarm, Scotts, UPI/UPL, ...

- > 100 Contract Research Organizations:
  Eurofins, SGS, SynTech; Anadiag, Agrii, Biotek, Peracto, Staphyt, ...

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Benefits of Using ARM

- Includes ideas from thousands of clients
- Easily exchange data with other researchers
- Maintained by stable staff
- GDM in the research trial management software business more than 30 years
Benefits of Using ARM

- ARM Offers:
  - Structure so trials are entered consistently
  - Dictionaries to standardize vocabulary
  - Enter information only once

- Resulting Benefits:
  - Portability across languages and platforms
  - Automation of routine tasks
  - Improved efficiency, accuracy, and quality
TDC: Tablet Data Collector

Win 8.1 Pro
+ ARM
+ special ARM tablet features

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TDC Features

- Tablet Data Entry
- Tablet Image Capture
- Tablet GPS
Summary Across Trials

- Optional ARM add-in to summarize a trial series over locations and years
- Summarize selected treatments/entries across a wide range of trials
- View and arrange summary on a grid
- Export the report to Word, Excel, PDF
- Data graphs of across-trial means
- Export raw data to other statistics software
ATD Trial Database

- ARM clients connect to ATD Backend database either directly over a local network, or remotely over VPN

- Authorized ARM clients export trials to SQL Server ATD Backend database that resides on the shared server
Using ATD with ARM

- Authorized ARM users export trials to ATD database using “Database Export” button on ARM toolbar.
- All ARM users who install the ATD connection can import trials from ATD using “Database Import” to select 1 or more trials to import from Backend database (interface is similar to ARM study list).
Using ATD with ARM

- ARM trials imported from ATD Backend database can be used in ARM like any standard trial: reviewing, graphing, and analyzing assessment data, or printing reports.
Using ATD with ST

ST criteria/query selection screen connects directly to ATD
Using ATD with ST

- ST is the query and multi-trial summary interface for ATD.
- Select one or more field entries from drop-down lists showing unique field entries in ATD for the current ARM entry field.
Software Must "Grow"

- As research methods and objectives change and improve, software must also adapt to support those new research objectives and methods.

- "Unchanging" software:
  - Becomes less useful each year.
  - Can be costly by "losing" (not supporting) information gathered with new technology.