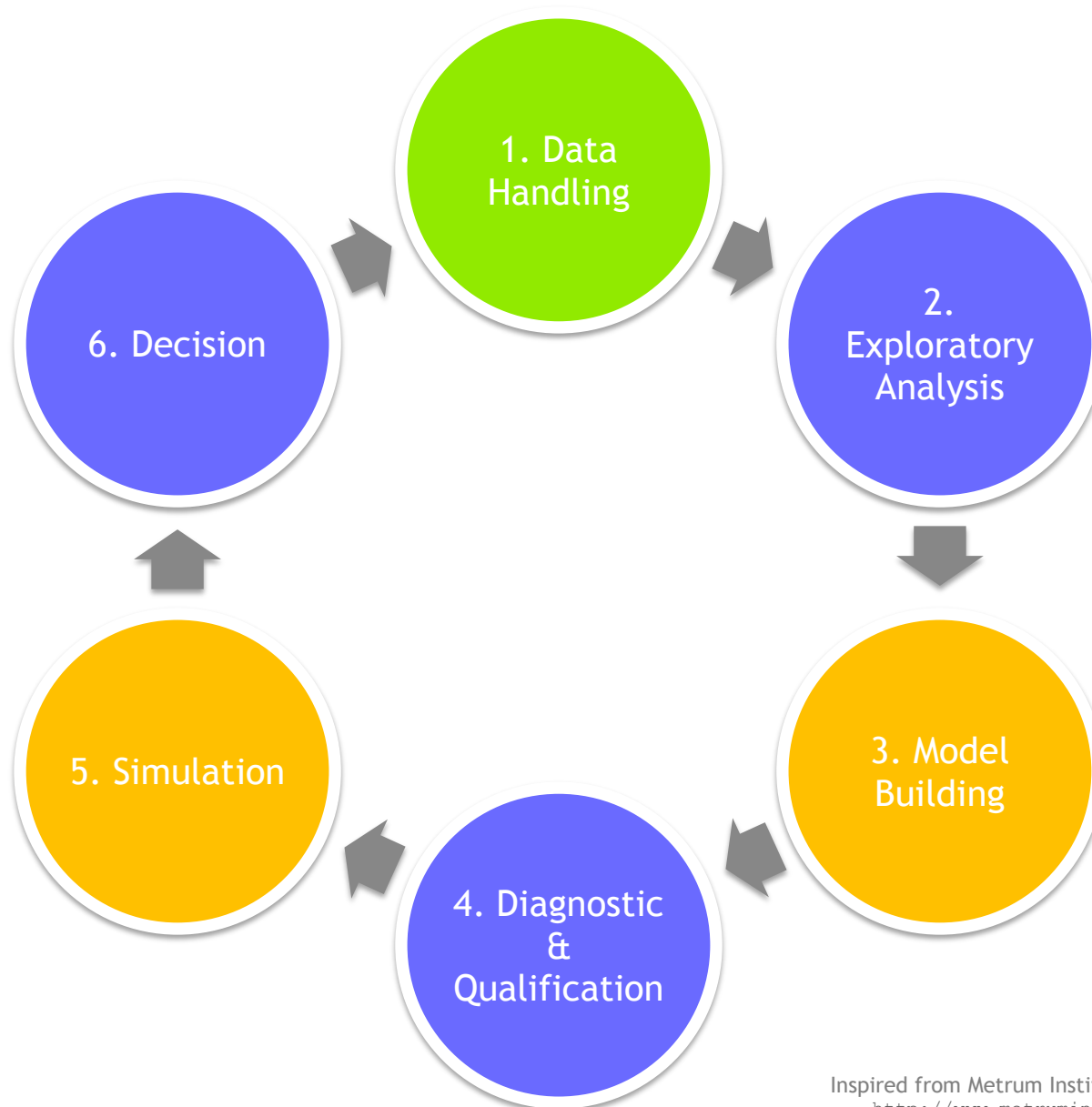


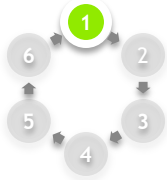
How can Pipeline Pilot help you?

Data Pipelining for PKPD Modelling & Simulation

- Help the modeller by giving access to data from different sources allowing
 - Integration of Data & Applications
 - In-depth Analysis
- Capture & deploy best-practice processes
 - Data Sharing & Search Queries
 - Reporting
 - Process Automation

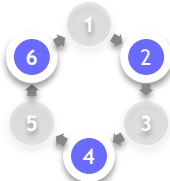
Typical Pharmacometrics Workflow





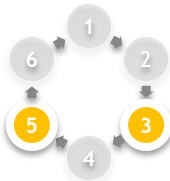
Data Handling

- From/To multiple disparate sources, Databases or Files
- In-House format checking rules, Logging & Archiving



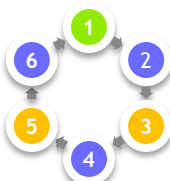
Exploratory Analysis, Diagnostics & Decision Tool

- Advanced Reporting capabilities, Interactive Charts, Forms
- Output formats: HTML, PDF, PowerPoint, Word, Excel, etc.
- Portlets integration, JavaScript, AJAX, Flash, etc.



Model Building & Simulation

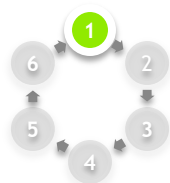
- Application Integration: NONMEM, WinBUGS, Monolix, etc.
- Job Explorer & Scheduler



Plus

- Highly Configurable Visual Programming Language
- Integrates R, SAS, MATLAB, Perl, Java, VBScript, etc.

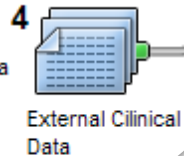
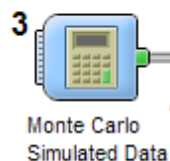
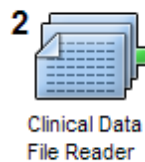
Data Integration



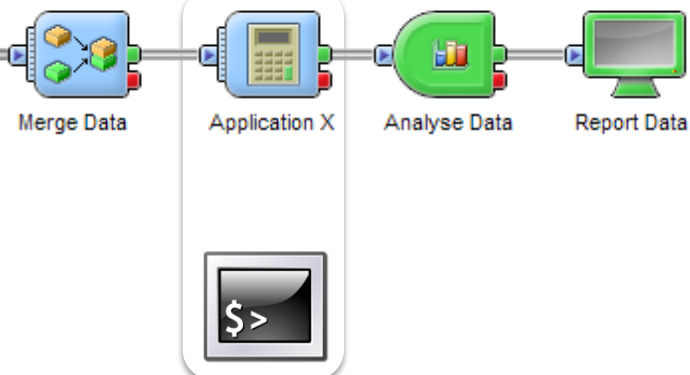
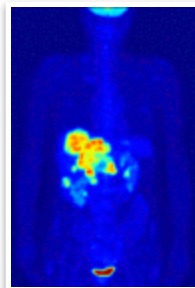
• Databases



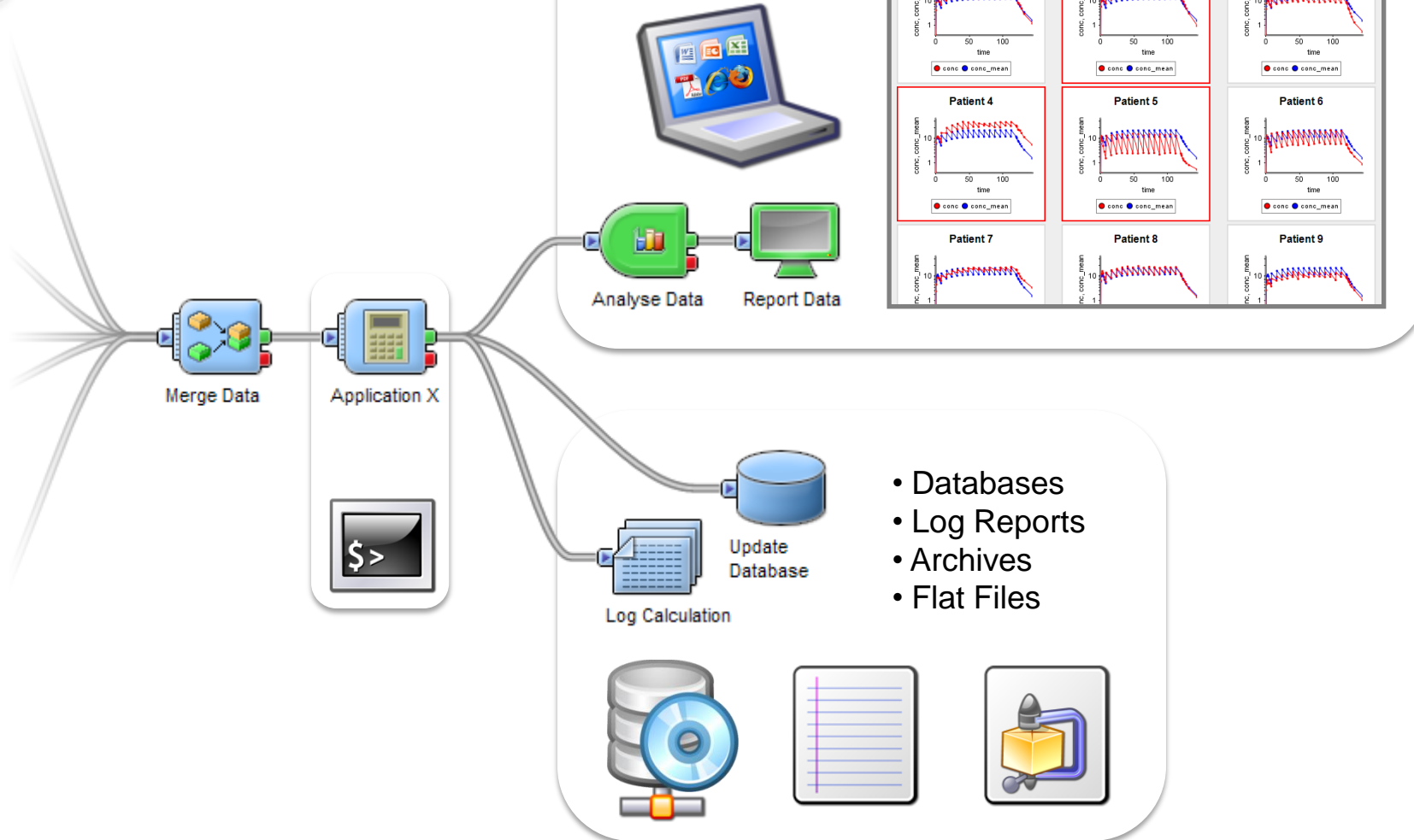
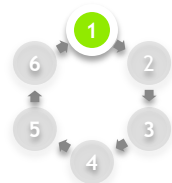
- Stored in Files
- Generated on the fly



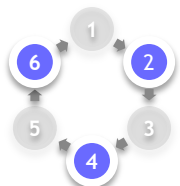
• Other Data



Log & Archive



Visualisation & Reporting



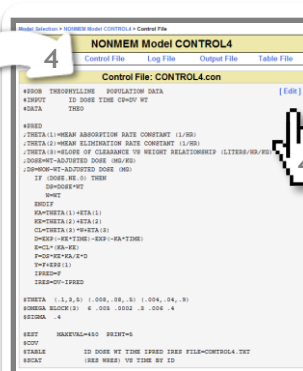
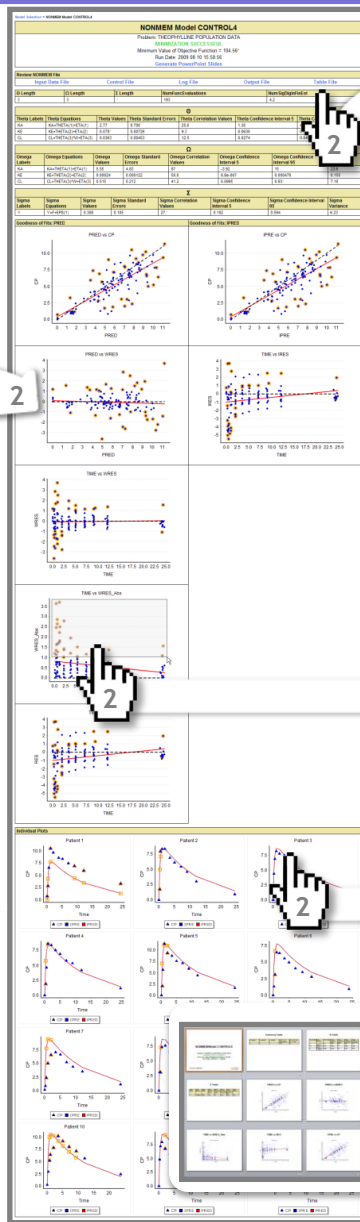
Model Name	Input File	Run Date/Time	Minimization	Minimum Value of Objective Function	Problem	Q Length	Q Length	Z Length	PowerPoint
CONTROL3	DATA3	2009 08 10 15:58:56	MINIMIZATION SUCCESSFUL	8.940	THEORYLINE SINGLE SUBJECT DATA	3	0	0	OK
CONTROL4	THEO	2009 08 10 15:58:56	MINIMIZATION SUCCESSFUL	104.561	THEORYLINE POPULATION DATA	3	3	1	OK
CONTROL4-AMT	THEO		ERR		THEORYLINE POPULATION DATA	3	3	1	ERR
CONTROL5	THEOP	2009 08 10 15:58:57	MINIMIZATION SUCCESSFUL	104.561	THEORYLINE POPULATION DATA	3	3	1	OK
CONTROL6	THEOP	2009 08 10 15:58:58	MINIMIZATION SUCCESSFUL	104.561	THEORYLINE POPULATION DATA	3	3	1	OK
CONTROL8	THEOP	2009 08 10 15:58:59	MINIMIZATION SUCCESSFUL	104.561	THEORYLINE POPULATION DATA	3	3	1	OK
CONTROL9	THEOP	2009 08 10 15:59:00	MINIMIZATION SUCCESSFUL	136.227	THEORYLINE POPULATION DATA	3	3	1	OK
CONTROL9-AMT	THEO		ERR		THEORYLINE POPULATION DATA	3	3	1	ERR
CONTROL10	THEO		ERR		THEORYLINE POPULATION DATA	3	3	1	ERR
CONTROL11	THEO		ERR		THEORYLINE POPULATION DATA	3	3	1	ERR
CONTROL12	THEO		ERR		THEORYLINE POPULATION DATA	3	3	1	ERR

1. Job Explorer

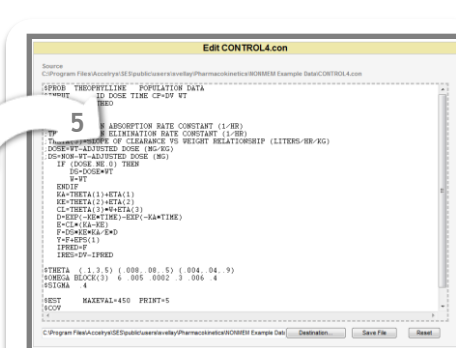
- Run Summary
- Sortable Table
- Select a Run

2. Model Report

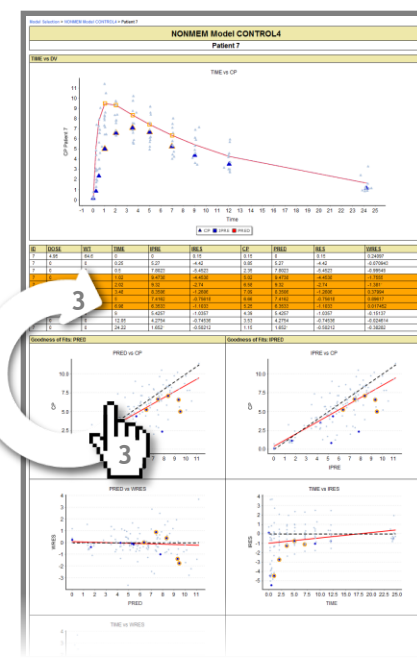
- Parameter Estimate
- Goodness of Fit
- Individual Plot
- PowerPoint Version
- Select a File
- Select a Patient



4. File Viewer

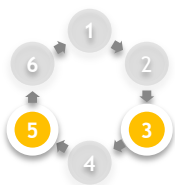


5. File Editor



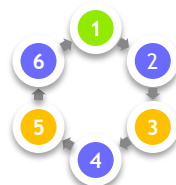
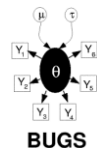
3. Patient Report

- Individual Plot
- Goodness of Fit
- Patient Data Table
- Select a Patient



Modelling & Simulation

- ▶ NONMEM
- ▶ PsN
- Xpose
- Monolix
- ▶ WinNonLin
- simCYP
- ▶ WinBUGS
- ▶ MC Sim



Plus

✓ Command Line



✓ ORACLE



✓ R



✓ MATLAB



✓ SAS



✓ Perl



✓ Java



✓ Python



✓ VBScript

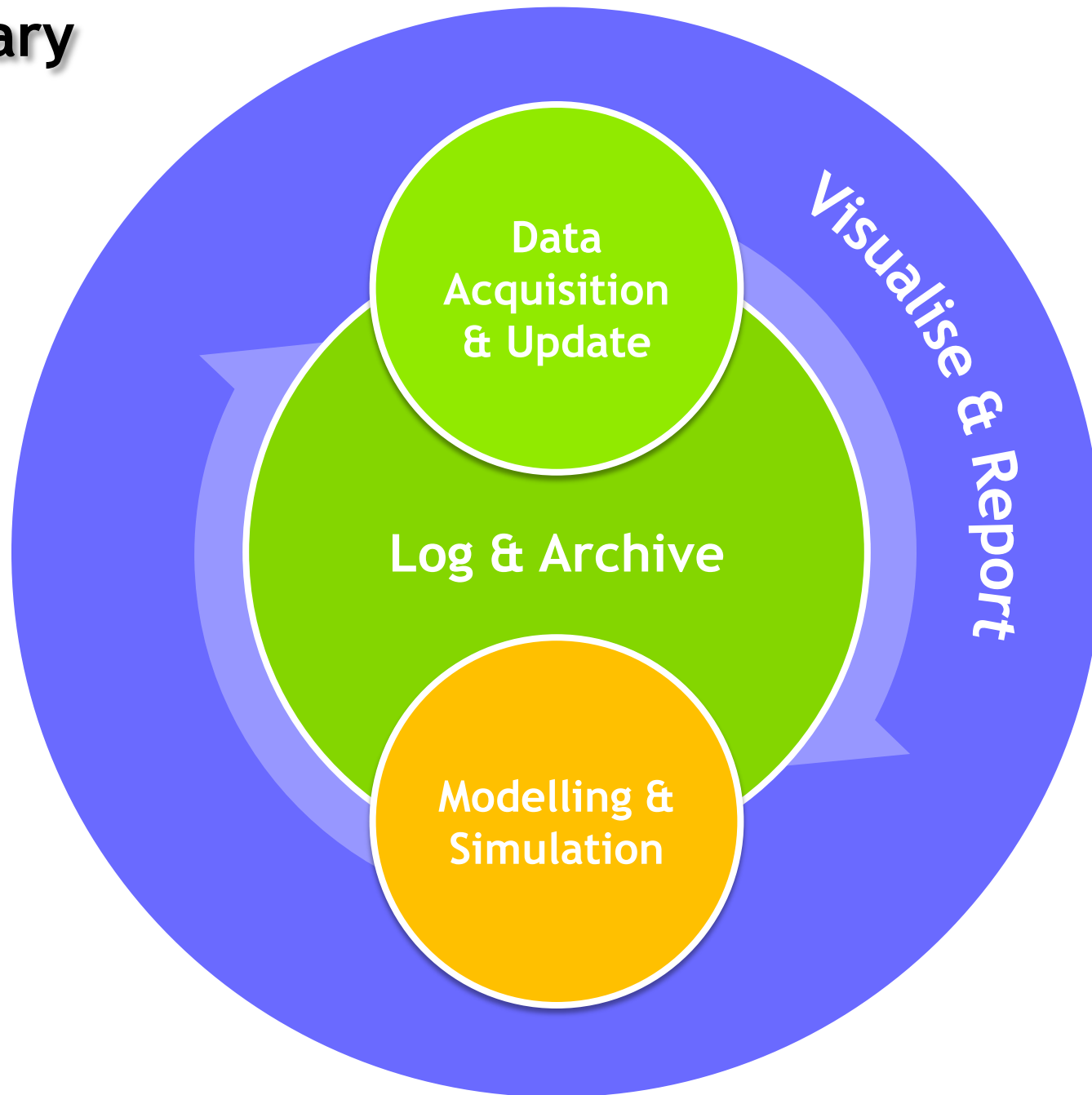


✓ Released

▶ Prototype

● To be done

Summary



- Chemistry
 - Chemistry
 - ADMET
 - Cheminformatics
- Biology
 - Sequence Analysis
 - Gene Expression
 - Mass Spectrometry for Proteomics
- Laboratory
 - Plate Data Analytics
 - Analytical Instrumentation
- Life science modeling & simulation
 - Catalyst (Pharmacophore)
 - CHARMM (Simulations)
- Materials modeling & simulation
 - Materials
 - Polymer Properties (Synthia)
- Analysis and Statistics
 - Modeling
 - Advanced Modeling
 - R-Statistics
- Imaging
 - Imaging
 - Advanced Imaging
- Document Search and Analysis
 - Text Analytics
 - Chemical Text Mining
- Reporting & Visualization
 - Reporting
- Database & Application Integration
 - Integration