

## BioIT

*"Our BioIT services accelerate your research through early and optimal decision support."*

**BioIT converts information to knowledge for usage in Discovery & Development. It integrates data from multi-disciplinary areas using Science and Information Technology.**

The Informatics division of GVK BIO is a pioneer in the field of scientific database development and is known for its manually curated databases related to Cheminformatics, Protein-Protein Interactions, Pathways and Biomarkers covering chemical & biological space from Journals and Patents.

### We offer the following BioIT services

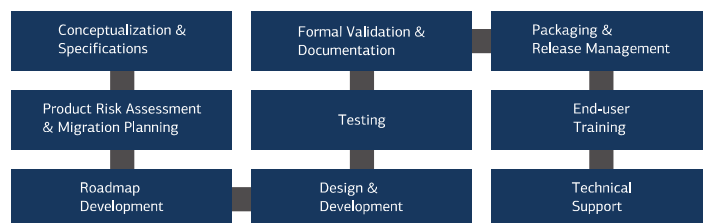
- Application Management
- Outsourced Product Development
- Application Integration
- Information & Process Management
- Formal Testing
- Scientific Process Outsourcing

### Application Management

- Maintain Clients' internal curation tools
- Web-enable legacy applications
- Querying/Search across multiple biological and chemical databases
- Data analysis algorithm tools
- Interactive data visualization tools
- Re-engineering and Database migration
- Maintenance and evolution of existing applications and products
- Migration of legacy applications/products to current technologies

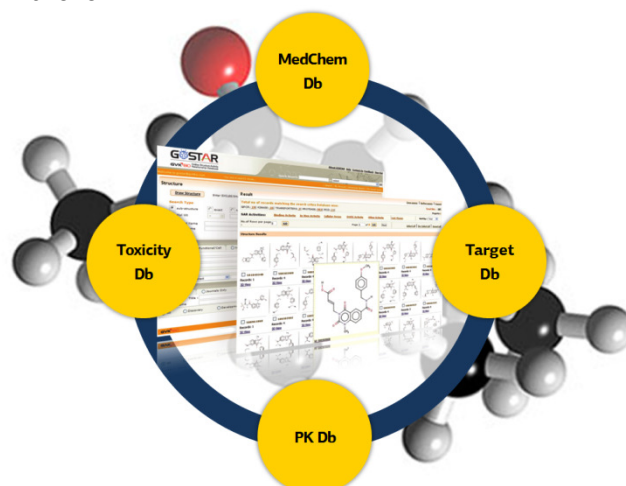
### Outsourced Product Development

- Full life cycle Service
- Plug-in architecture APIs
- Backward compatibility management
- Porting to multiple platforms and architectures (where needed)
- Extended life cycle Management



### Application Integration & Data Integration

- Integration of in-house, third party, commercial and open source applications
- Database integration and integrity verification
- Semantic analysis using specified ontologies and taxonomies



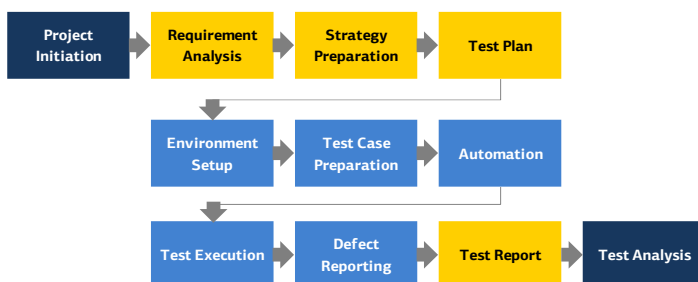
GVK BIO	Target Id. & Validation	Discovery & Screening	Lead Identification & Optimization	Pre Clinical	IND Clinical Trials	Process Research & Custom Synthesis	NDA Drug Marketing
Application Management	✓	✓	✓	✓	✓	✓	✓
Outsourced Product Development	✓	✓	✓	✓		✓	
Application Integration	✓	✓	✓	✓	✓	✓	✓
Information & Process Management	✓	✓	✓	✓	✓	✓	
Formal Testing			✓	✓		✓	
Scientific Process Outsourcing	✓	✓	✓	✓	✓		

## Information & Process Management

- Scientific data management
  - Instrument-generated data
  - 21 CFR Part 11 compliance
- Data extract-transform-load (ETL) tools for scientific data
- Enterprise knowledge management including SOPs
- Laboratory Information Management System (LIMS)
- Electronic Lab Notebook, with activity tracking
- Regulatory Compliance

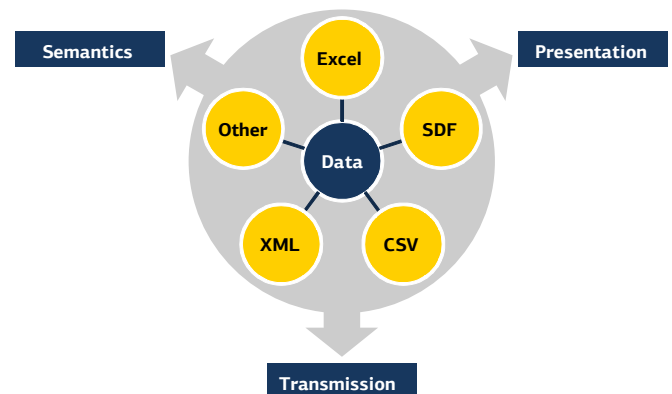
## Formal Testing

- Full life cycle verification and validation
- Functional testing
- Test automation
- Algorithm verification
- Data integrity testing
- Testing migrated/re-engineered applications and products
- Performance and stress testing



## Scientific Process Outsourcing

- Implementation of third-party solutions such as
  - Pipeline Pilot and KNIME
  - Analytics
- Implementation and integration of chemical cartridges
- Technical help desk for industry-standard tools



## About GVK BIO

GVK Biosciences (GVK BIO) is Asia's leading Discovery Research and Development organization. GVK BIO provides a broad spectrum of services, stand-alone and integrated, across the R&D value chain.

## Services

- Chemistry Services
- Process R&D and Custom Synthesis
- Biology
- Informatics
- Clinical Research
- Clinical Pharmacology

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