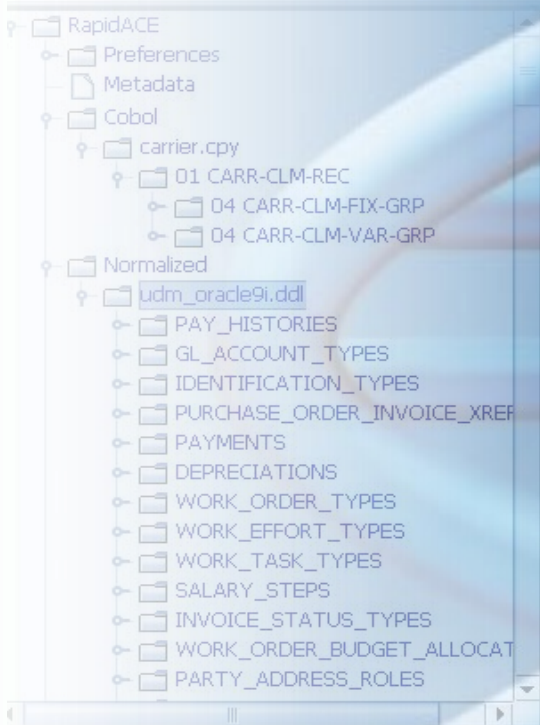# CoSORT
THE OPEN SYSTEMS STANDARD

IRI, The CoSort Company, introduces the

Rapid Architectural Consolidation Engine
The enterprise solution for disparate data models

RapidACE

RapidACE delivers automatic data model creation, visualization, integration, modification, and exploitation.

What Is RapidACE?

RapidACE is a software platform that enables data architects to integrate disparate data models automatically. RapidACE significantly improves an organization's business agility by controlling and integrating data architectures. RapidACE understands changes to data models, compares, merges and synchronizes those changes, and automatically generates multiple application routines.
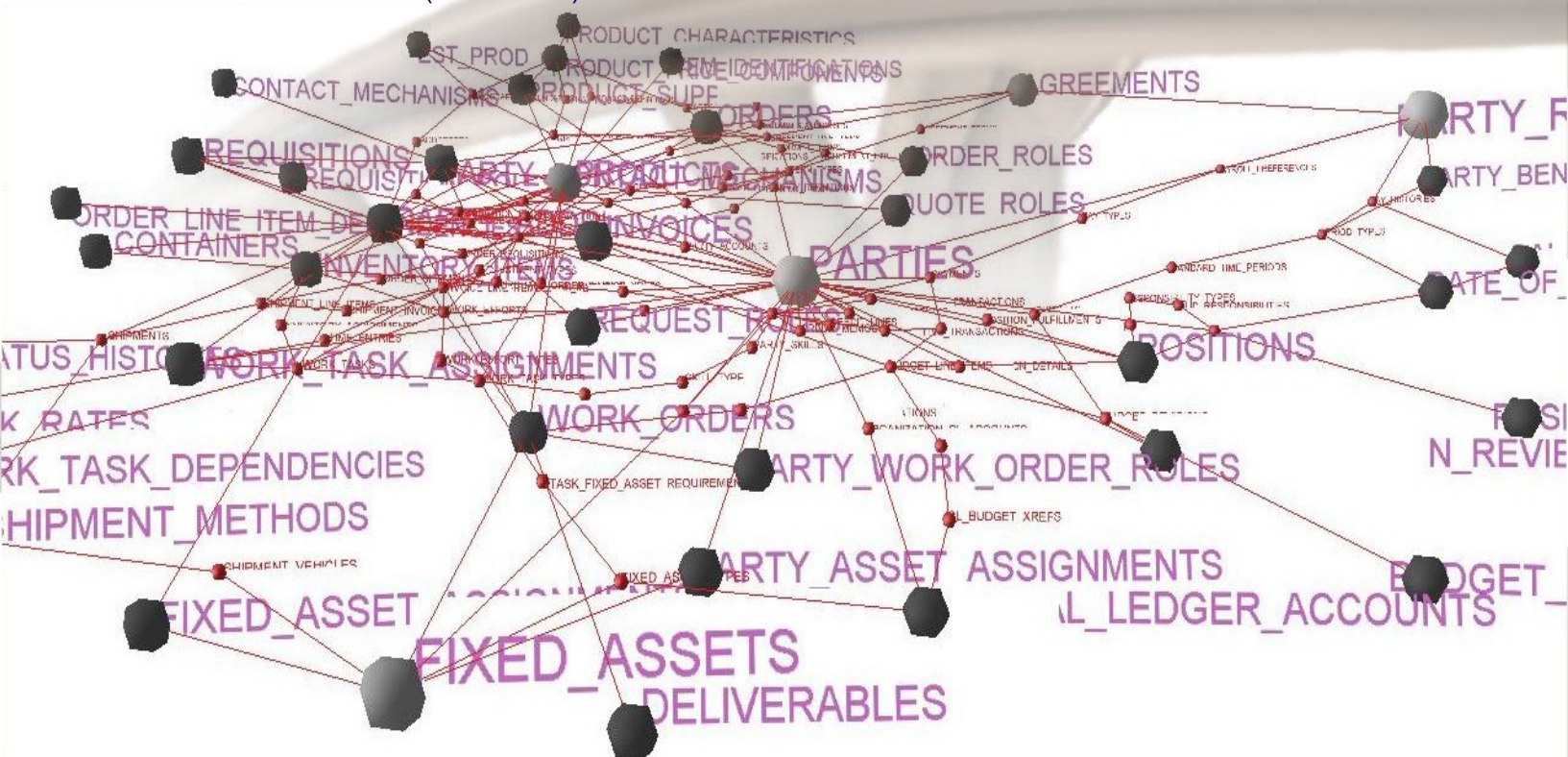
What Does RapidACE Do?

RapidACE delivers high-speed, automated data model consolidation through a combination of statistical analyses, semantic ontologies, and neural networking algorithms that learn your business terminology. RapidACE also provides a visualization interface to teach the integration engine how to consolidate common terminology, and to generate data architecture on an automated, repeatable, and consistent basis. RapidACE can also produce ETL, ELT, and test data generation routines based on the architecture of the data models. RapidACE complements the data modeling tool set, enables creation of what-if scenarios with specific architecture, and bi-directionally engineers data models in multiple formats including:

- 3NF
- Staging Area Models
- Enterprise Data Warehouse (EDW) Models
- Data Vault
- Star Schema Models
- Master Data Models
- Operational Data Stores
- Exploration Tables

What Are the Benefits of RapidACE?

- Builds EDW, staging, master data models, and star schemas rapidly
- Ensures consistency and repeatability within the architecture
- Saves significant time and money in deployment and model maintenance
- Eliminates hand-coded architectural errors
- Assimilates new models on the fly
- Assimilates changes to existing models rapidly
- Audits and verifies existing data models
- Improves DW team efficiency and productivity
- Generates ETL and ELT load routines quickly
- Generates test data (via RowGen)
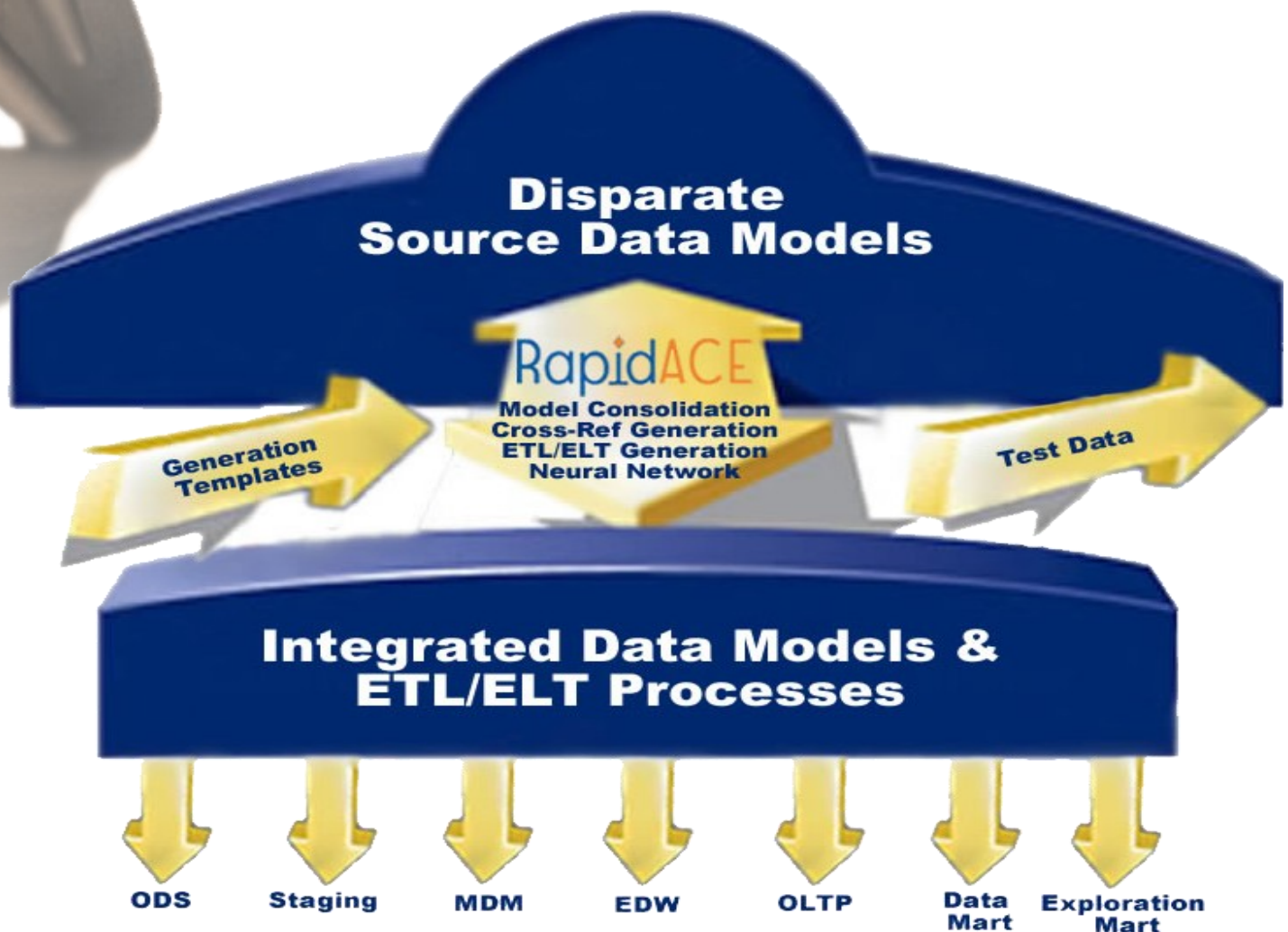
RapidACE - Beyond Data Modeling Tools

RapidACE imports disparate data models and integrates them to and produce a common model. From this single consistent data model, RapidACE generates ETL and ELT load routines, produces standardized data models, and provides cross-reference mappings from source to target models.

RapidACE offers complex visualization of data models and their inter-relationships, allowing you to rotate, fly-through, generate, and change the context in which the data models are applied.

RapidACE does not perform logical modeling; a logical modeling tool like ERwin® is still needed. RapidACE does not manage stored procedures and triggers. However, it can create ETL, ELT, and RowGen test data generation code based on customizable templates. And, beyond a metadata repository for models, the RapidACE "Pro Edition" will feature a metadata repository for Model Integration Projects.

The true value of RapidACE for data model management lies in its advanced matching and learning capabilities, for integrating, and merging disparate models. RapidACE marries these capabilities with powerful visualization technologies so you can dynamically examine complex data relationships, and immediately absorb business changes while enforcing standards and consistency -- no matter how large and complex data models become.

The activities that now take data architects months to accomplish can be performed in minutes using RapidACE.

Included Plug-Ins Feed ETL, ELT, and Test Data Jobs

Using existing architecture, RapidACE automatically creates application routines for:

- Informatica ETL (mappings, sessions, workflows)
- Pentaho ETL
- CoSort (data transformation, protection, reporting)
- RowGen (test data generation with referential integrity)
- OWB DDL Script Generation
- OWB SQL Views Script Generation
- ELT SQL View Generation: ANSI-Standard SQL

Each plug-in is template driven and can be customized to meet specific application requirements.

RapidACE Features

- Model Comparison / Merge
- Test Data Generation
- Cross-Reference Creation
- Multiple Schema Management, Cross-Schema Referencing
- Primary/Foreign Key Validation
- Conversion of DDL between Databases
- Bridge of Cross-Reference (Stage to Star, Source to Master Data Model, etc.)
- ETL Generation for Informatica and Pentaho
- ELT (SQL View) Generation for Databases
- Full Support for Custom Data Types
- Full DDL Support for Teradata, DB2 UDB, Oracle, Sybase, SQLServer, MySQL, and ODBC
- Reads and Writes DDL and SQL Scripts, XML and Tab-Delimited Files for Cross-Referencing
- Identity Column Generation
- Load-Date Stamping
- Disparate Data Model Integration (Consolidation)
- Record Source Generation and Tracking
- Data Model Analysis and Reporting
- User Configurable Naming Conventions
- User Control over "Custom" Tables, and Where Clauses for ELT SQL Generation
- Auto-Recognition of Field Classes (Load Dates, Record Sources, and Sequence Numbers via Naming Conventions)
- Auto-Recognition of Table Classes (Dimensions, Degenerate Dimensions, Facts, Helper Tables, Links, Hubs, Satellites)
- Import / Export of Oracle Warehouse Builder DDL Script Formats
- Import / Export Management of Cross-Reference (from-to) Documentation
- Case-Insensitive Matching of Table and Column Names
- Comment Tracking

For more details on RapidACE, CoSort, and RowGen:

INNOVATIVE ROUTINES INTERNATIONAL, INC.
2194 Highway A1A, Suite 303
Melbourne, FL 32937 USA

TEL 321.777.8889   Email info@iri.com
FAX 321.777.8886   URL www.iri.com