Business transformation delivered by Integrated Information Management
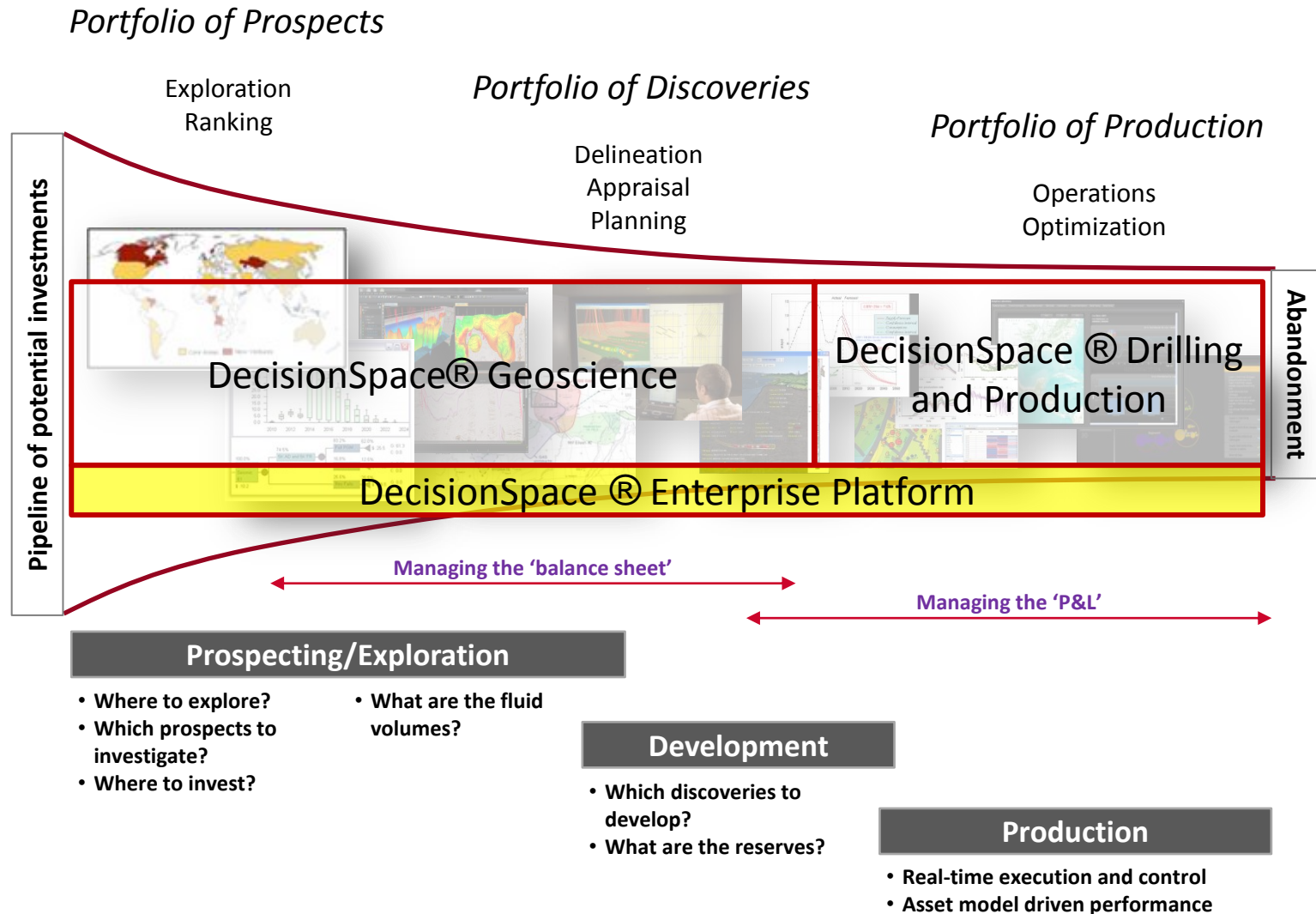
Janet Hicks

Sr. Manager, Information Management and Platform technologies

Landmark Software and Services
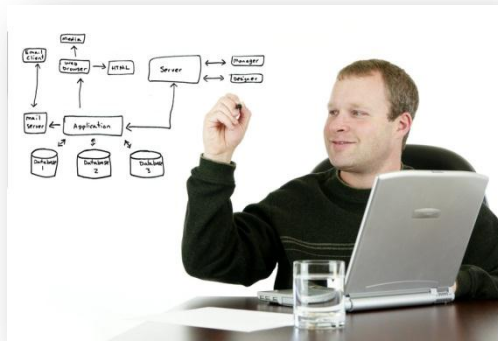
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Landmark Alignment...

Portfolio of Prospects

Portfolio of Discoveries

Portfolio of Production

Exploration
Ranking

Delineation
Appraisal
Planning

Operations
Optimization

Pipeline of potential investments

Abandonment

DecisionSpace® Geoscience

DecisionSpace ® Drilling and Production

DecisionSpace ® Enterprise Platform

Managing the 'balance sheet'

Managing the 'P&L'

Prospecting/Exploration

- **Where to explore?**
- **Which prospects to investigate?**
- **Where to invest?**
- **What are the fluid volumes?**

Development

- **Which discoveries to develop?**
- **What are the reserves?**

Production

- **Real-time execution and control**
- **Asset model driven performance**

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E&P Business & Technology Challenges

Business

Developers

IT

| Workflows & Extensions | Open Ecosystem | Stability, Scalability |
| Data Access & Integration | Developer kits | Extreme Performance |

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The Evolution of E&P Integration

1st Gen	2nd Gen	3rd Gen	4th Gen
Paper and Calculators	**Digitization of Manual Process**	**Data Integration**	**Data-centric Workflow Integration**
Ended Early 80s	**Ended Early 90s**	**90s – Early 2000s**	**Today**
	App 1, App 2, App 3 → DB 1, DB 2, DB 3	App 1, App 2, App 3 → DB	App → Server → DB 1, DB 2, DB 3
	One to One	**Many to One**	**One to Many**

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The Evolution of E&P Integration

1st Gen	2nd Gen	3rd Gen	4th Gen	5th Gen
Paper and Calculators	**Digitization of Manual Process**	**Data Integration**	**Data-centric Workflow Integration**	**Enterprise Platform & Ecosystem**
Ended Early 80s	**Ended Early 90s**	**90s – Early 2000s**	**Today**	**Google, Facebook**

	One to One	**Many to One**	**One to Many**	**Many to Many**

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The Evolution of E&P Integration

1st Gen Paper and Calculators	2nd Gen Digitization of Manual Process	3rd Gen Data Integration	4th Gen Data-centric Workflow Integration	5th Gen Enterprise Platform & Ecosystem
"Platform"				DecisionSpace®
	One to One	Many to One	One to Many	Many to Many

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Geosciences | Reservoir | Drilling | Production | Data Management   Real-time | Your portal   Mobile
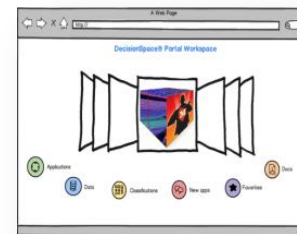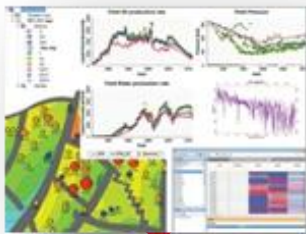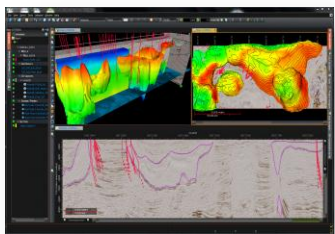
Ecosystem Foundation

Easy to use, Easy to deploy, Role based dashboards

Application Foundation

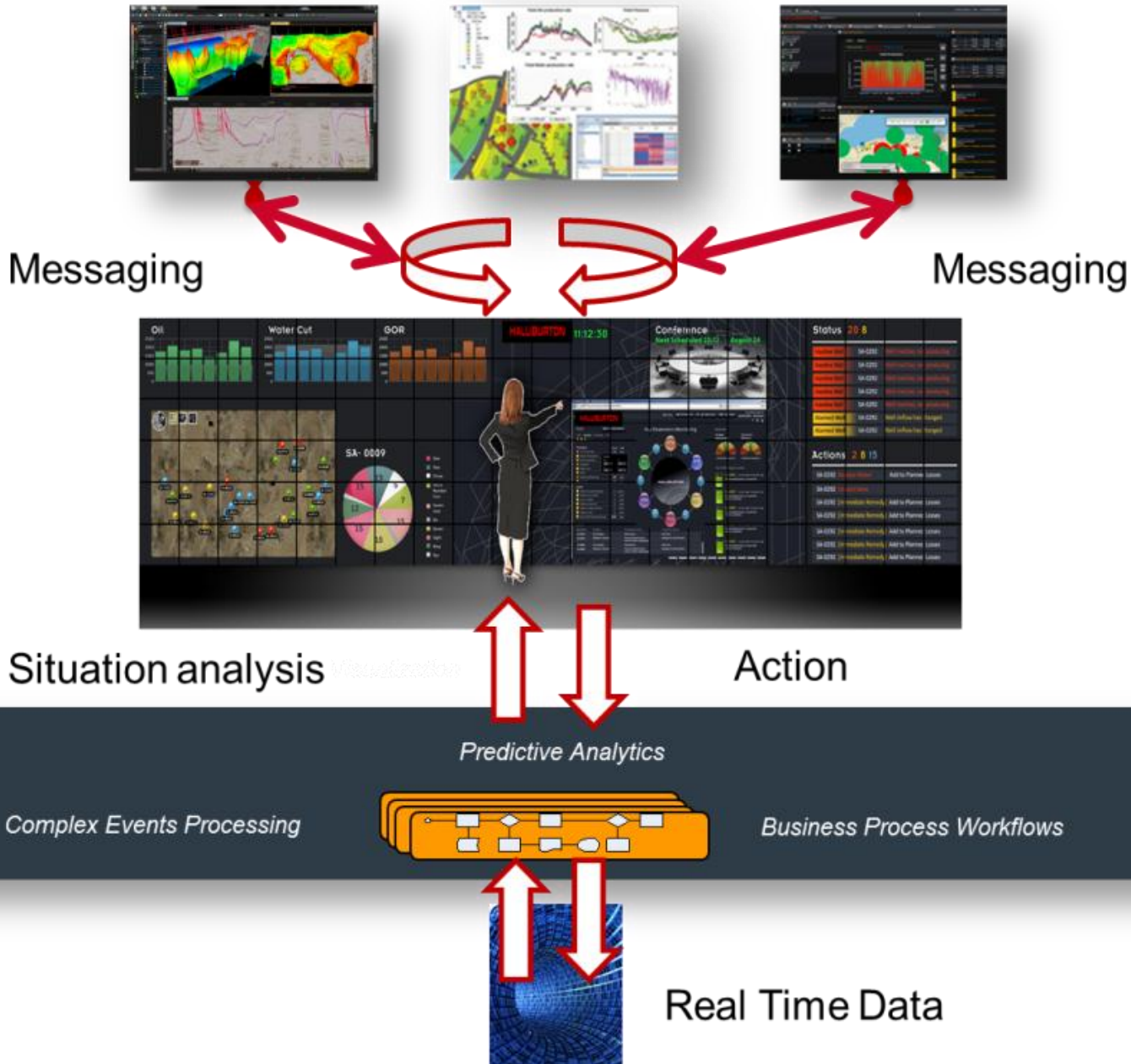*Building & Customizing richer E&P applications faster*

Integration Foundation

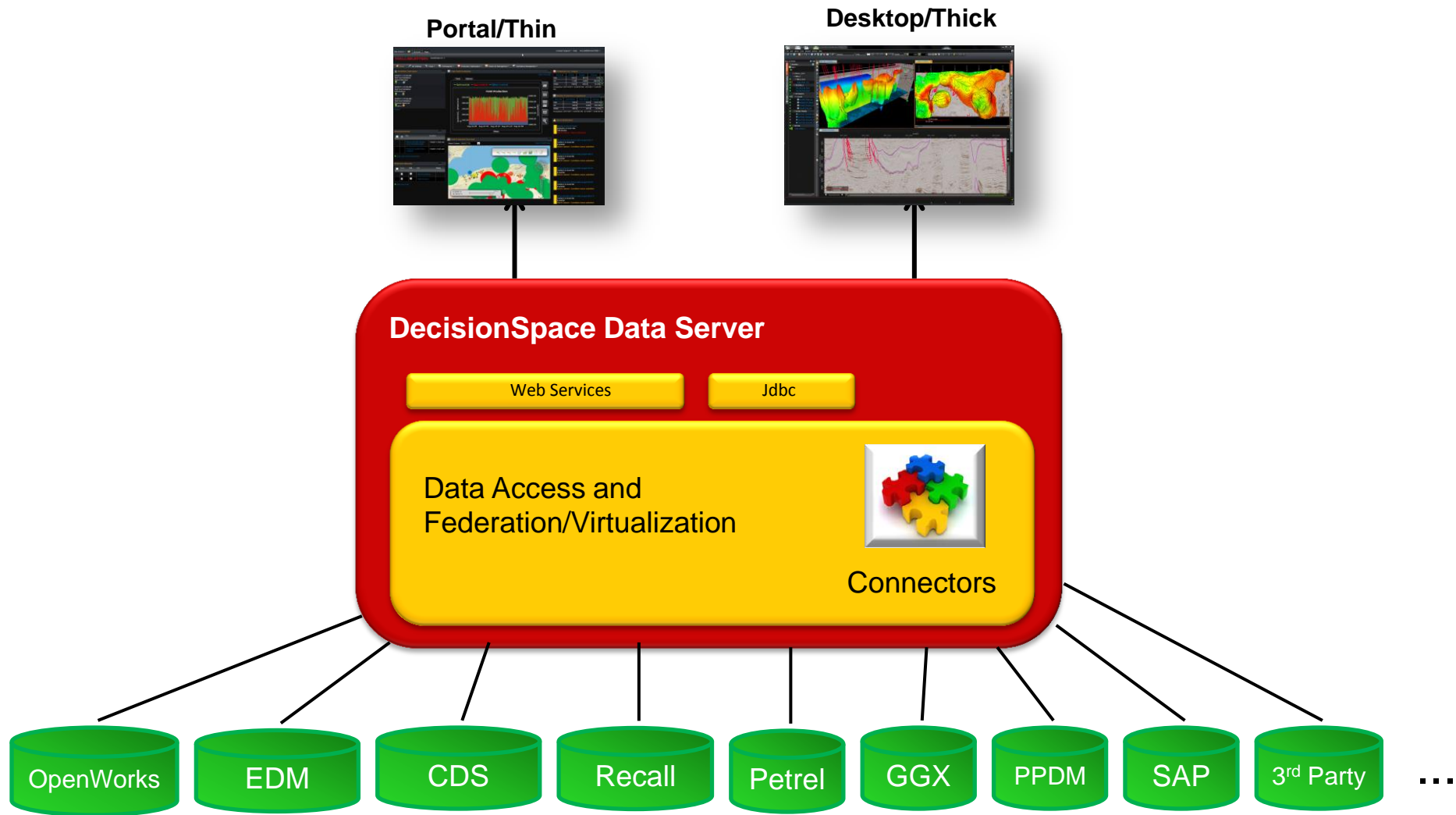*Enterprise class data and process purpose built for E&P applications*

Information Foundation

Comprehensive, Industry specific data management

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Data Integration

Portal/Thin

Desktop/Thick

DecisionSpace Data Server

Web Services

Jdbc

Data Access and Federation/Virtualization

Connectors

OpenWorks | EDM | CDS | Recall | Petrel | GGX | PPDM | SAP | 3rd Party ...

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DecisionSpace® Platform

Deployment options out of the box

Mobile

SQLite

Cloud

ORACLE

Ecosystem Foundation

Application Foundation

Integration Foundation

IM Foundation

Enterprise deployment

ORACLE

Ecosystem Foundation
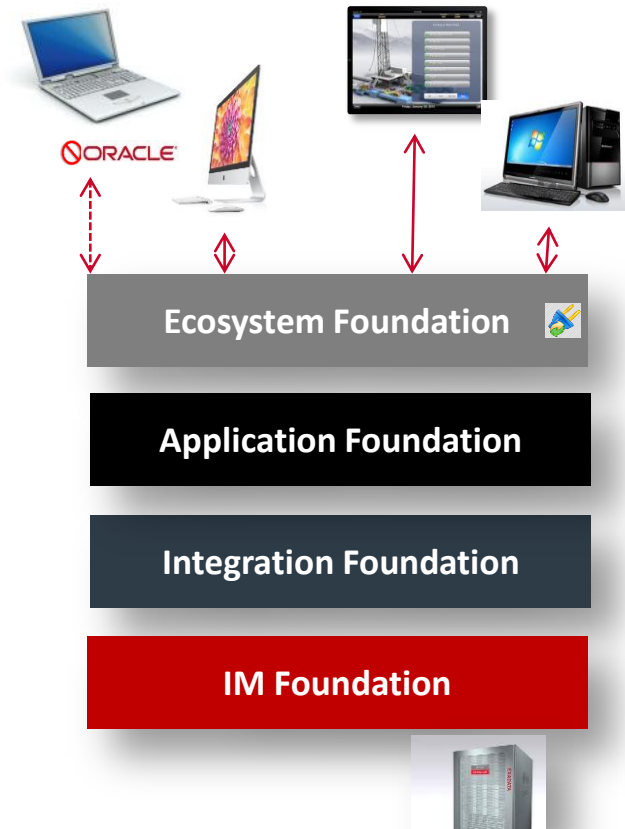
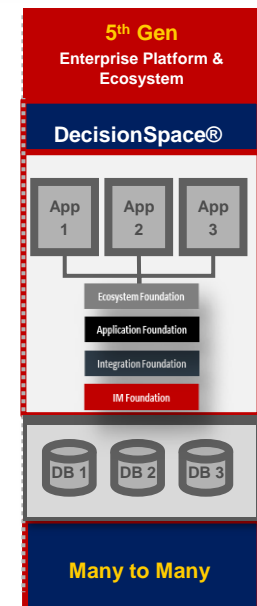Application Foundation

Integration Foundation

IM Foundation

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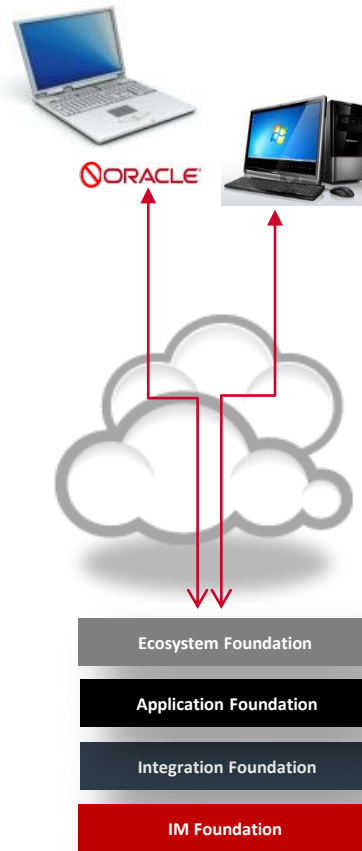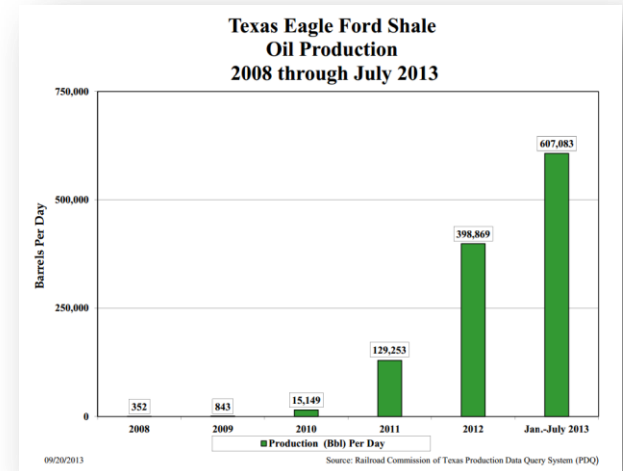
Summary

- There is a need for business flexibility & agility

- There is a need for an Open Ecosystem

- There is a need for scalable enterprise deployments

- These needs demand an enterprise platform that dramatically increase Information access and integration

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Q&A

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