

IT Systems Engineering | Universität Potsdam

Complexity and Characteristics of Enterprise Applications

Trend & Concepts in the Software Industry - Lecture June 2011

EA requirements are diverse and complex



SAP for Consumer Products:

customers with multiple million sales order line items per day

SAP Enterprise Resource **Planning:**

no maintenance downtime allowed for, e.g. the Apple iTunes Store

SAP Supply Chain Management:

customers with over 3 million different product configurations

SAP Human Capital **Management:**

compute the payroll for 500.000 employees within a few hours

SAP Netweaver Portal:

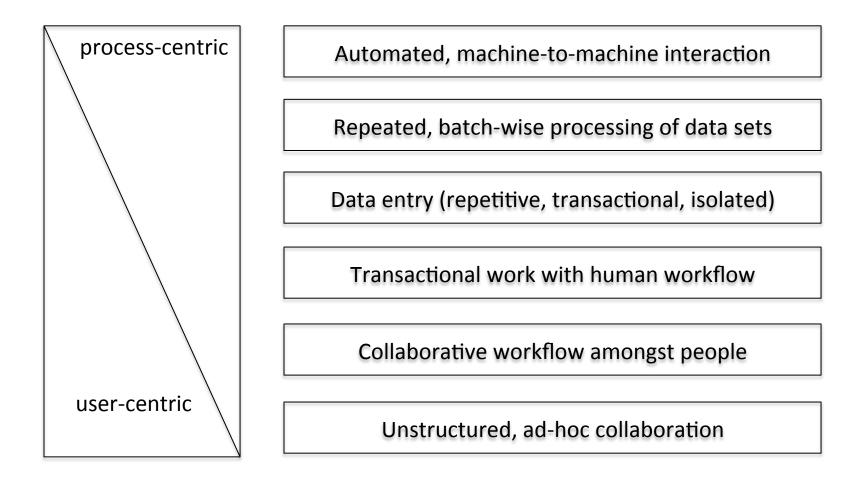
handle 300.000 users in a web portal (40.000 concurrently active)

SAP Business Intelligence:

customer with a live database of 40 terabytes in size

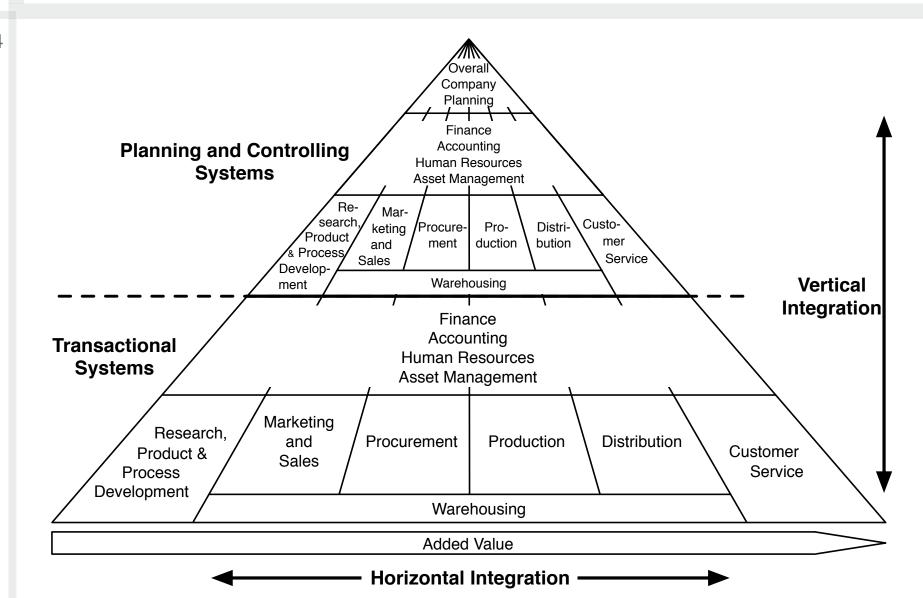


EA have different interaction paradigms



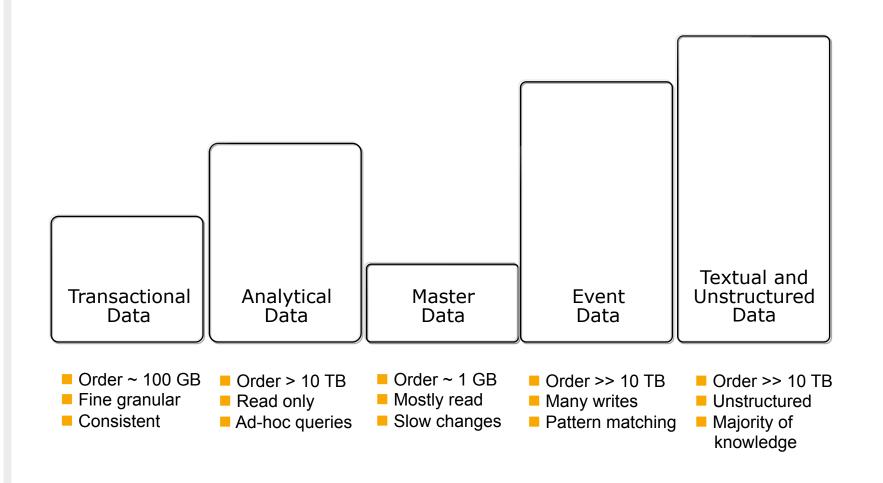


EA are highly integrated systems



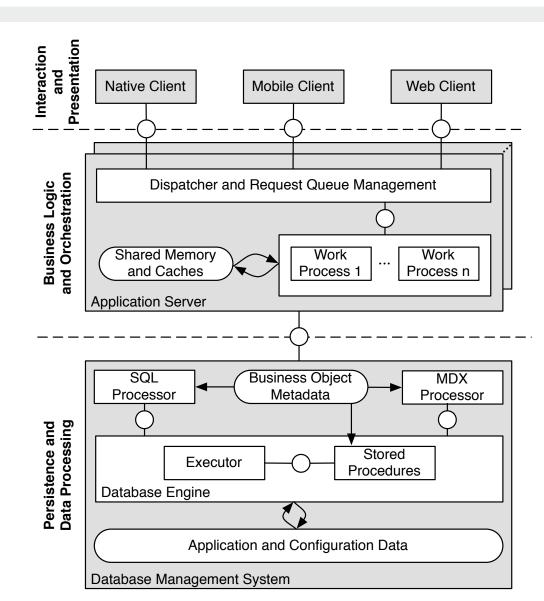


EA process data that is not alike





EA comprise multiple layers



Facebook has more than 100 terabytes of data...



Facebook has more than 150 terabytes of new data per day

Reflect on what you've heard so far! Does Facebook ...

... have to deal with different customer requirements in various industries in different countries?

... have to provide an infrastructure to support individual customizing ?

... have to be afraid of being sued when they have a downtime?

... have to consider different user interaction paradigms?

... have the need for consistency?

... send you an invoice ?