

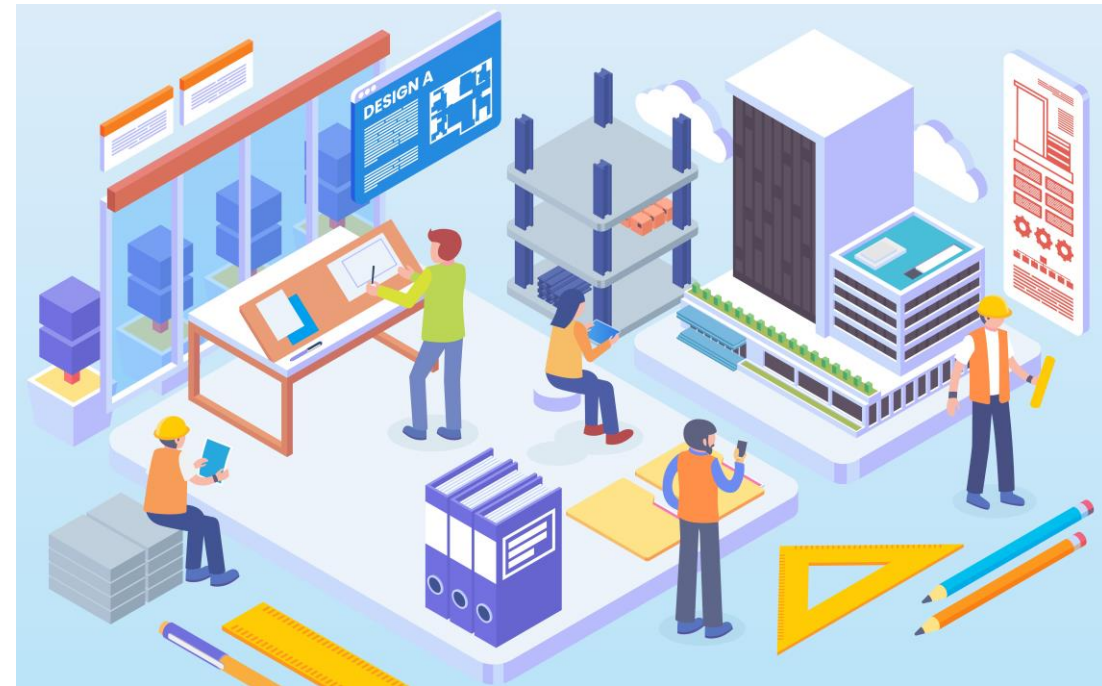


Lesson 8 – Tech Architecture Best Practices

Topic 2 – Best practice principles



TDI ACADEMY
LEARNING FOR THE DIGITAL AGE

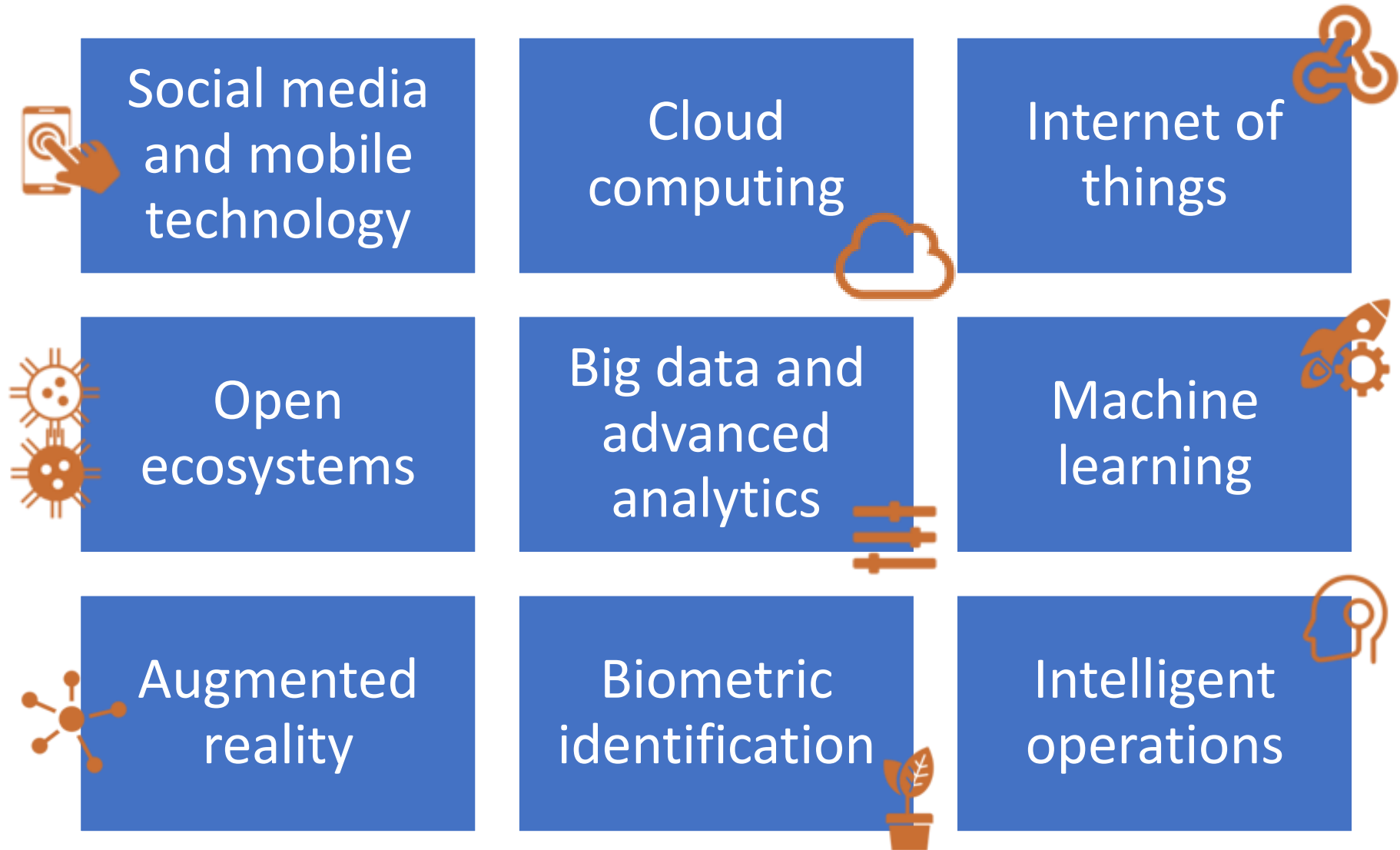


What we've learned so far

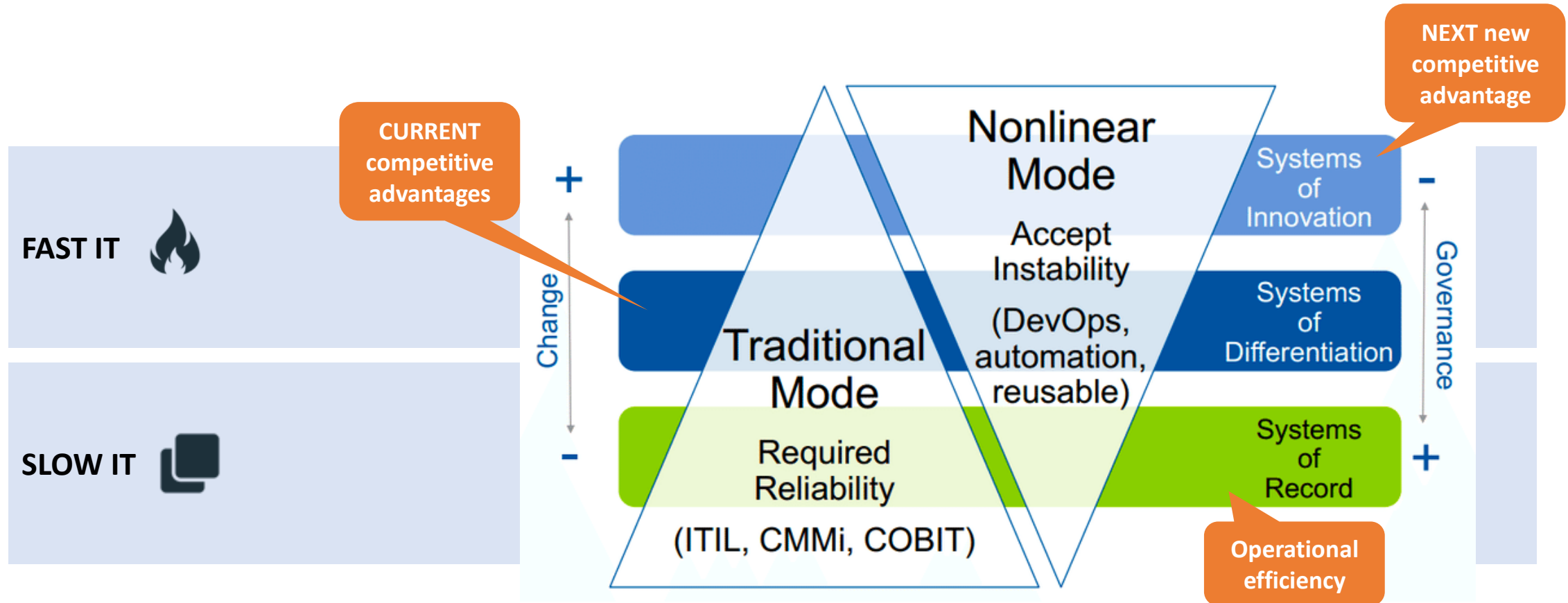
- The **primary purpose** of tech architecture is to **support the business architecture** so the firm can execute the strategy successfully
- To survive in a hyper-complex world, the business must be able to respond quickly to market changes – and this can only be done through technology
- So technology must be **flexible, scalable** and **easily adaptable** to external sources
- BUT THIS IS NOT THE CASE TODAY!
- Legacy systems are inflexible, unscalable monolithic constructs that requires significant resources just to be kept operating – not an optimal point of departure for a rapidly changing and evolving world
- There's a clear need for 'doing something'



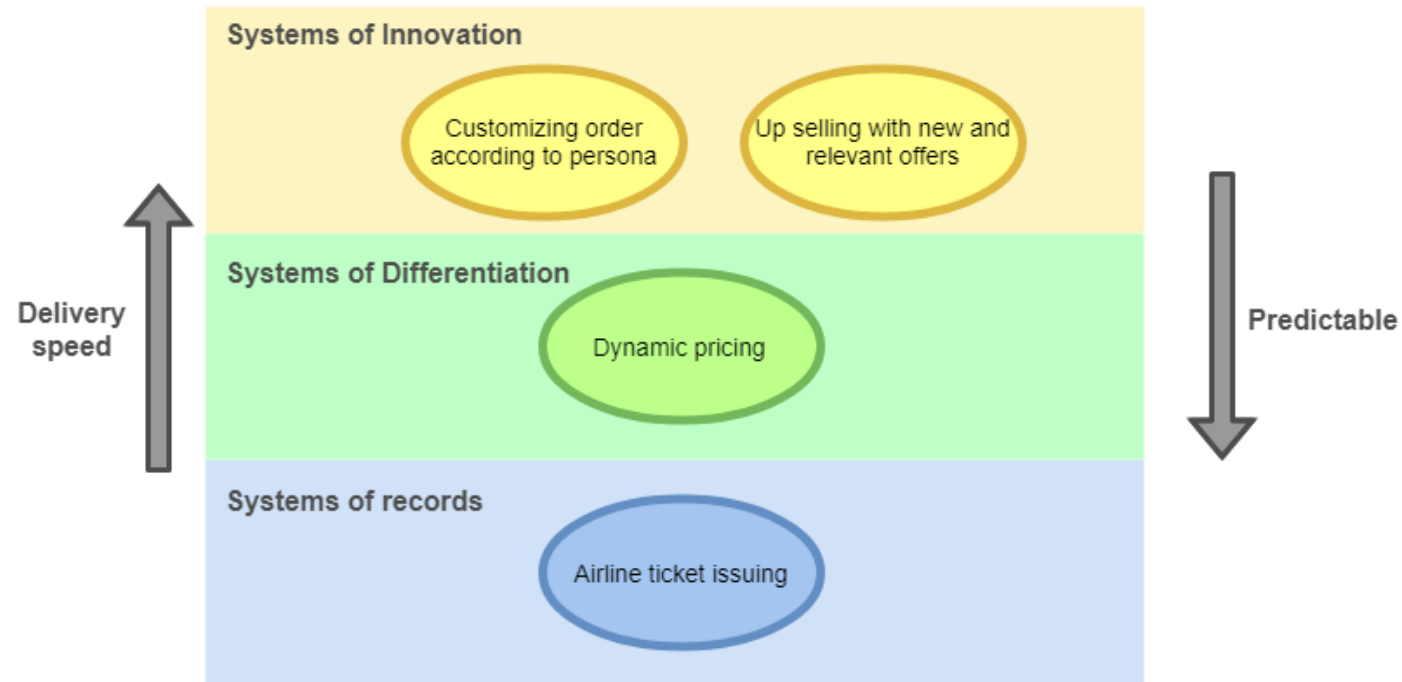
...add to this nine digital insurance trends



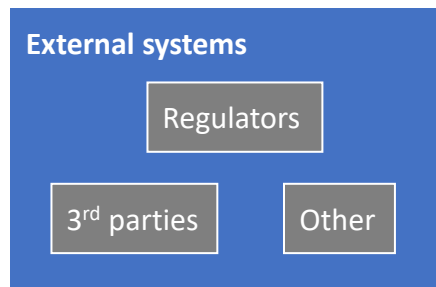
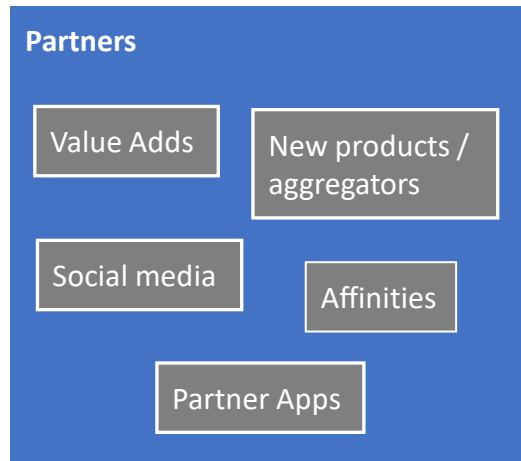
Core concept – bi-modal IT



High-level example from an airline

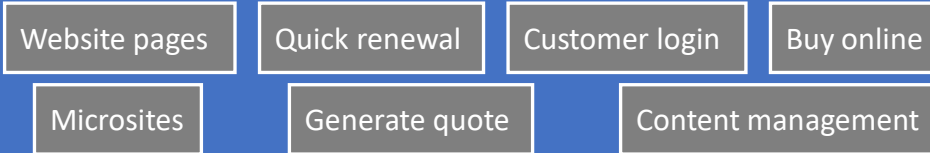


Case study: real-life bi-modal architecture



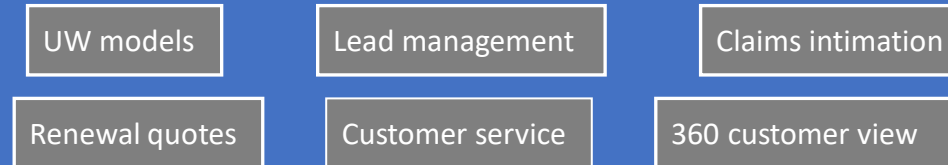
System of engagement

Customer interface



System of differentiation

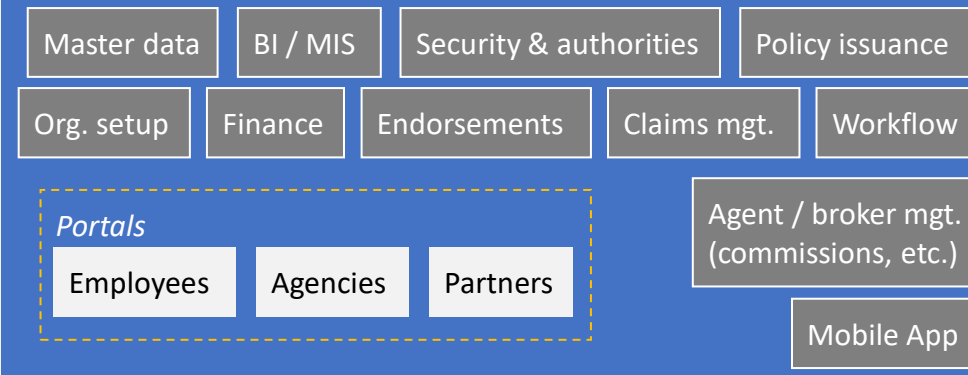
CRM



Document management

ECM system

"Legacy system"



System of records



Pros and cons of bi-modal IT

Advantages

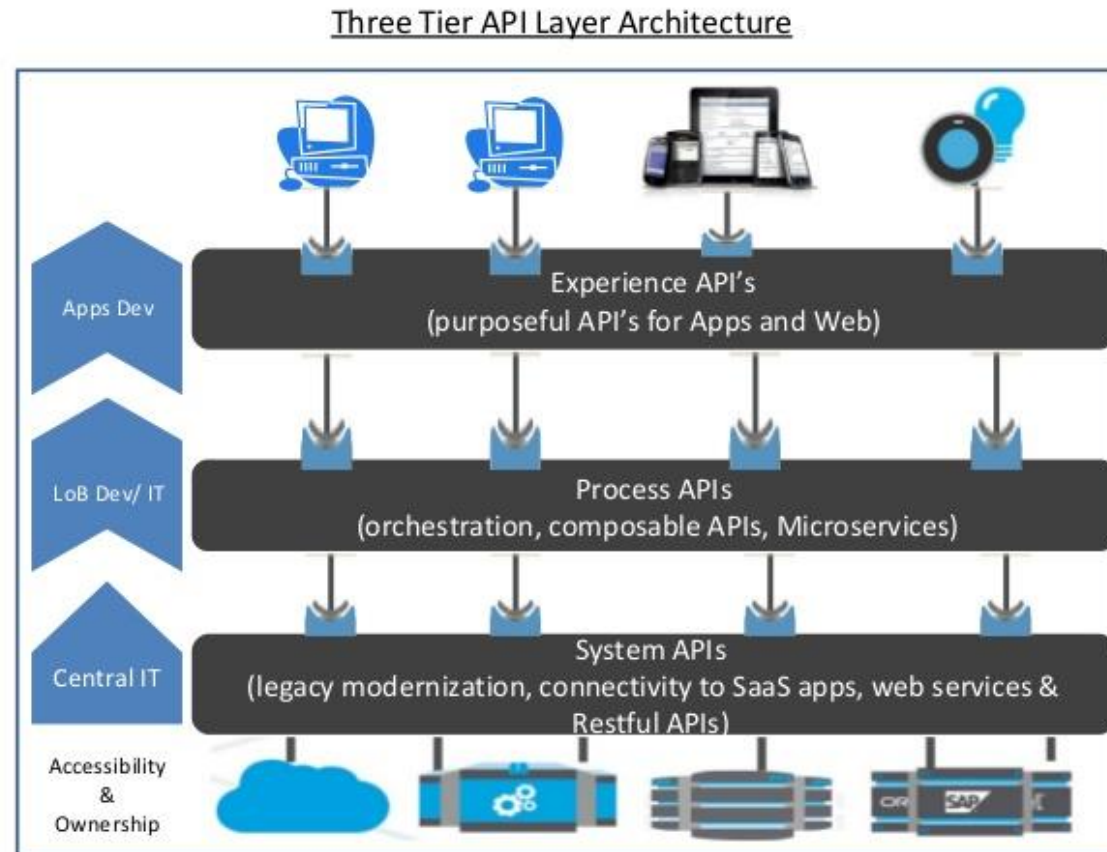
- Speed of implementation
- Innovation opportunities
- Agility and adaptability
- Less shadow IT

Challenges

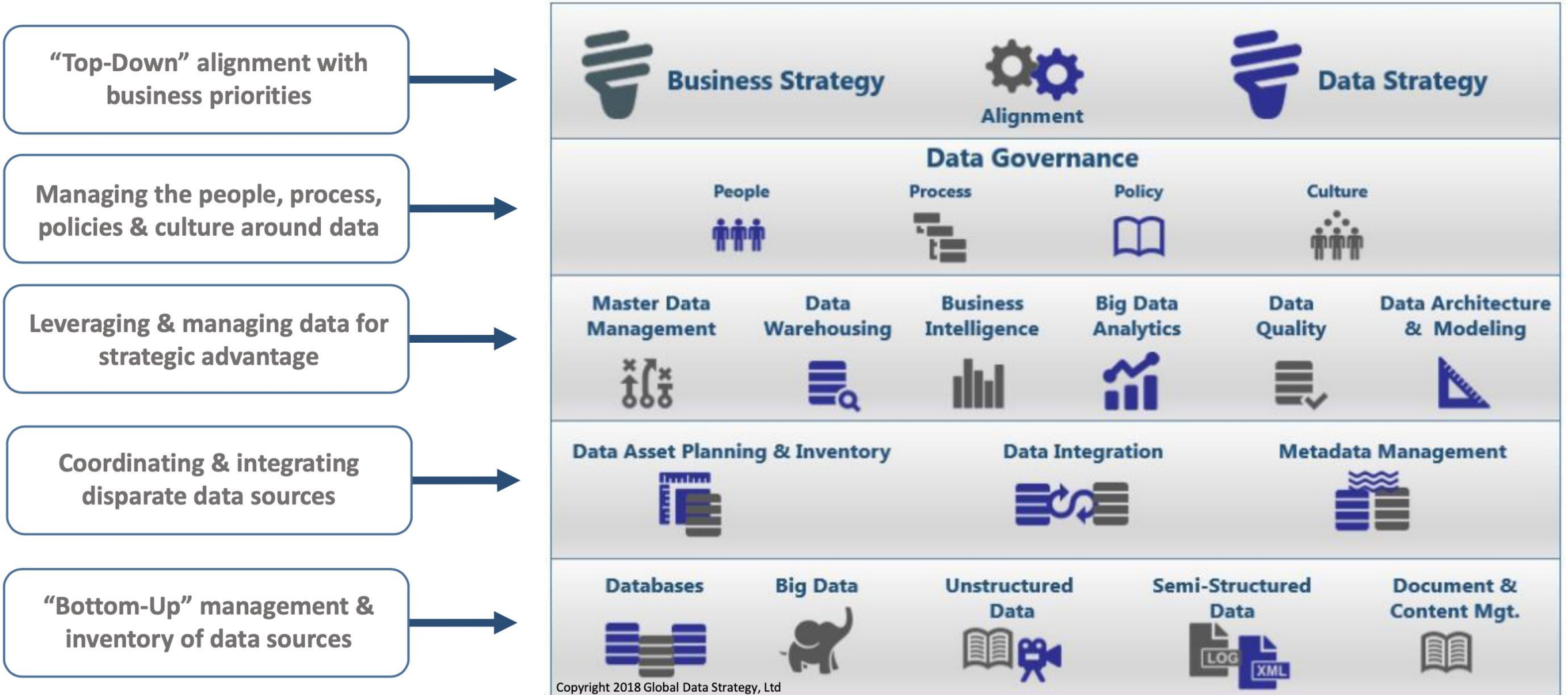
- Separation of teams can create disharmony (“us” vs. “them”)
- Confusion – the business may not know how to proceed
- Resistance to change
- Overall higher costs



Connecting the architecture (lesson 2.7)



,,,but it all begins and ends with data



Understanding data 3.0

Support enterprise-wide analytics and business processes; CRM, supply chain management, and quote to cash. Solutions for data quality, cloud data integration, data security, data archiving, etc.

Data 3.0

NOW

The next generation of data is in the early stages, and entire businesses are realizing the disruptive power of data to fuel innovation, become more agile, and realize new growth opportunities through new business models and processes

Data 2.0

2000-2015

Data 1.0

~1950-2000

Data used primarily to report or capture historical transactions within specific departments supported by individual business applications, such as payroll automation, enterprise resource planning (ERP), and point-of-sale (POS) systems



Master Data Management

- The underlying premise of a master data strategy is to create trusted data for the organization to use. **If you can't trust your data, you can't rely on insights derived from it**
- **Master data** is the consistent and uniform set of identifiers and extended attributes that describes the core entities of the enterprise including customers, prospects, citizens, suppliers, sites, hierarchies and chart of accounts
- **Master data management (MDM)** is a technology-enabled discipline in which business and IT work together to ensure the uniformity, accuracy, stewardship, semantic consistency and accountability of the enterprise's official shared master data assets
- An effective MDM strategy entails an end-to-end, comprehensive view of trusted, relevant, governed, and authoritative data

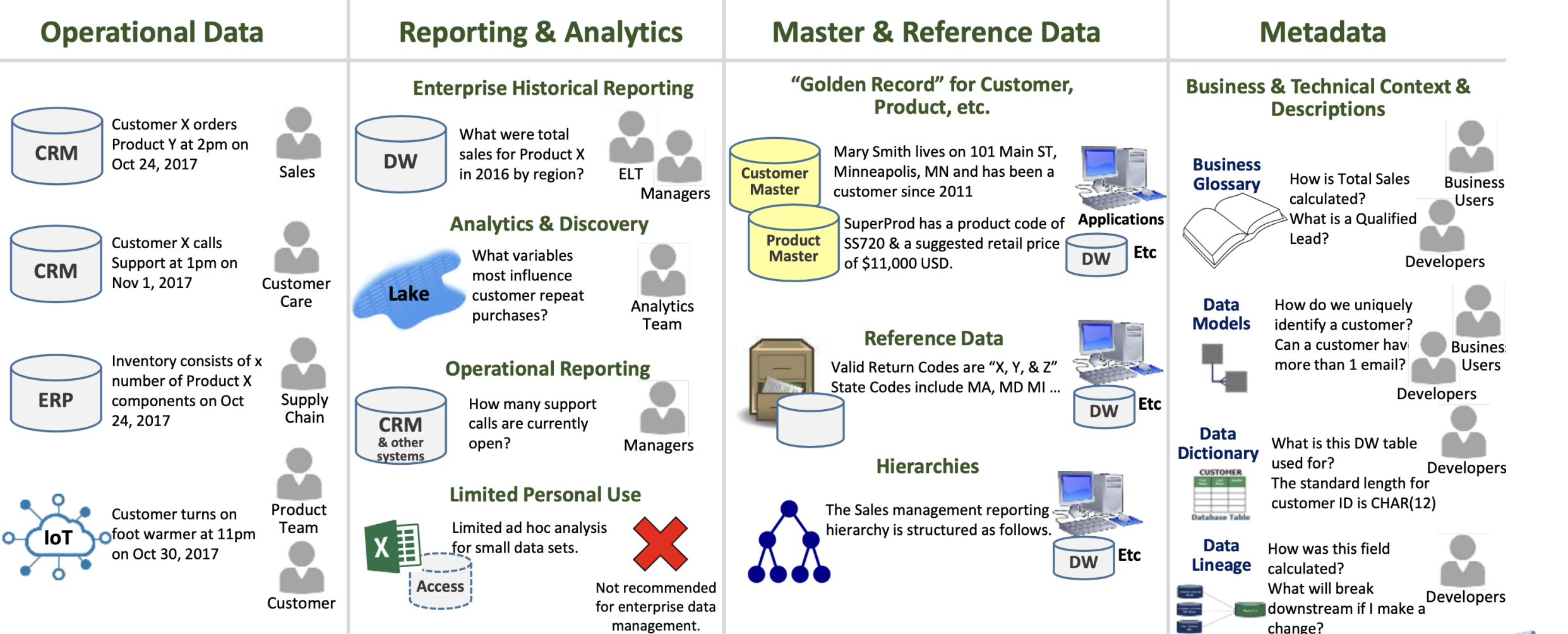


The Master Record

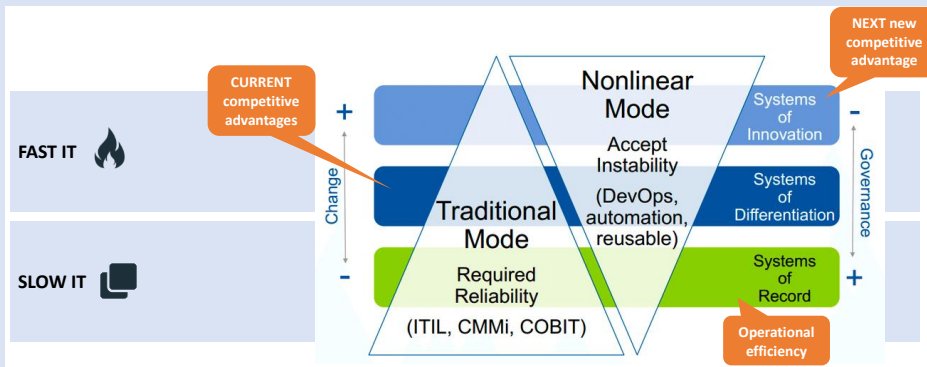
- Master data, when managed and reconciled, creates a *master record* (also known as a *golden record* or *best version of the truth*) that contains the essential information that the firm relies on
- The master record contains what your business needs to know about a customer, location, product, supplier — that business-critical “thing” — in order to facilitate, say, a marketing campaign, a service call, or sales conversation



Data architecture – a brief overview



Tech and data architecture



You cannot have a meaningful tech architecture without valid and structured data

...and you cannot have a meaningful way of using data without a structured way of storing and accessing them

