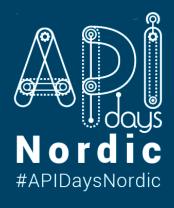
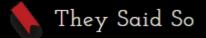
Business, IT and the pursuit of APIness





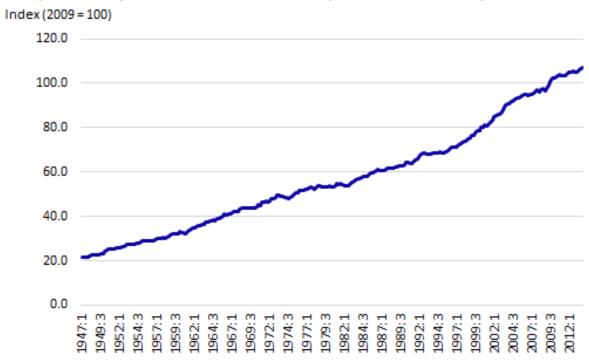


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```

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Where's the revolution?

Labor productivity in the business sector, first quarter 1947–fourth quarter 2013



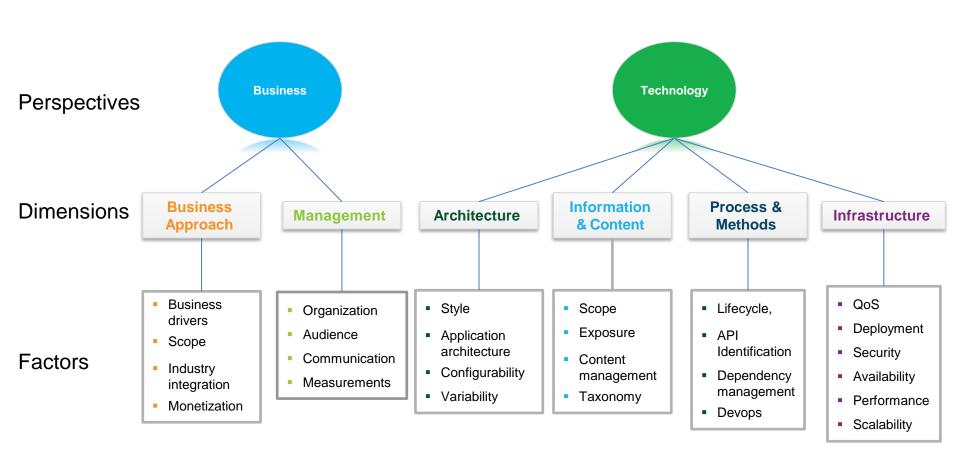
Source: U.S. Bureau of Labor Statistics.



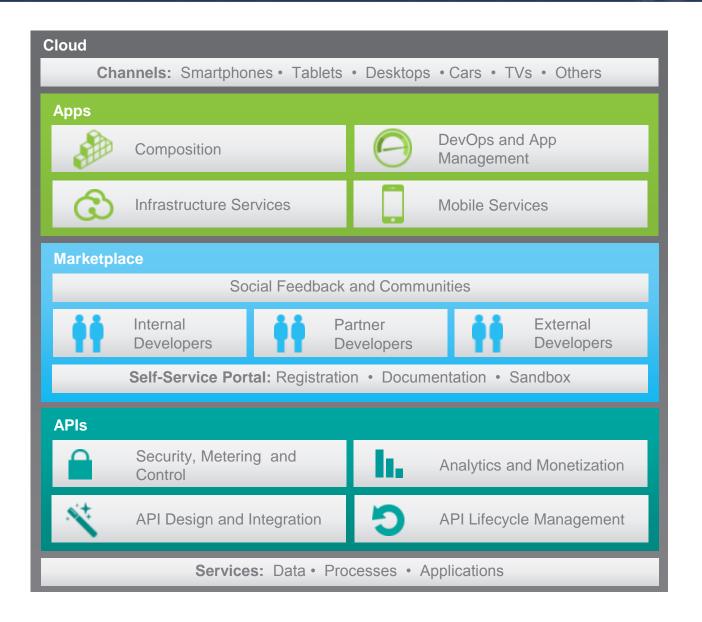




Perspectives, Dimensions and Factors

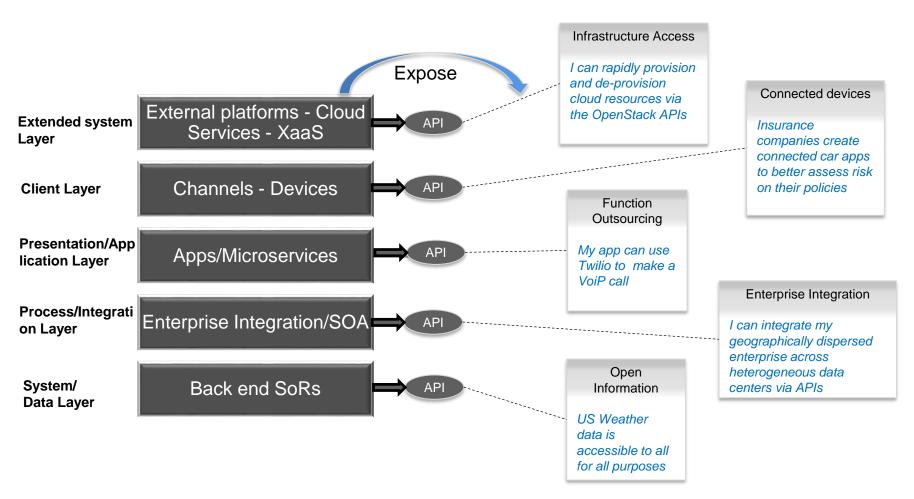


A successful API initiative requires end-to-end focus



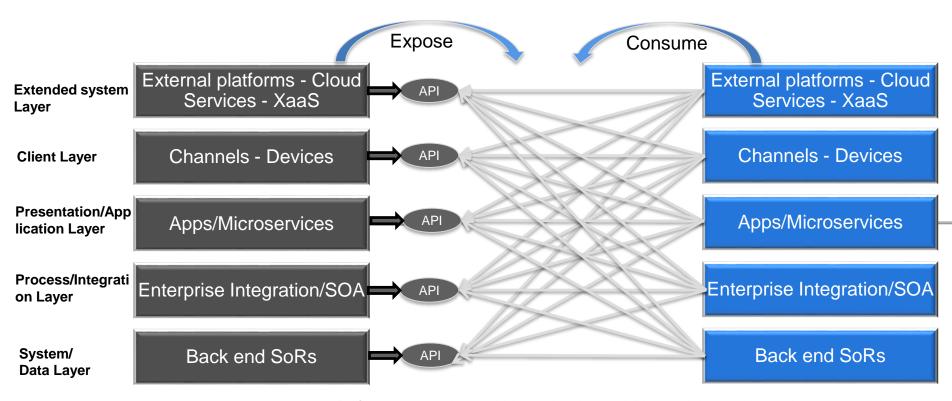


APIs are exposed from all architectural layers





APIs are exposed AND consumed at all architectural layers

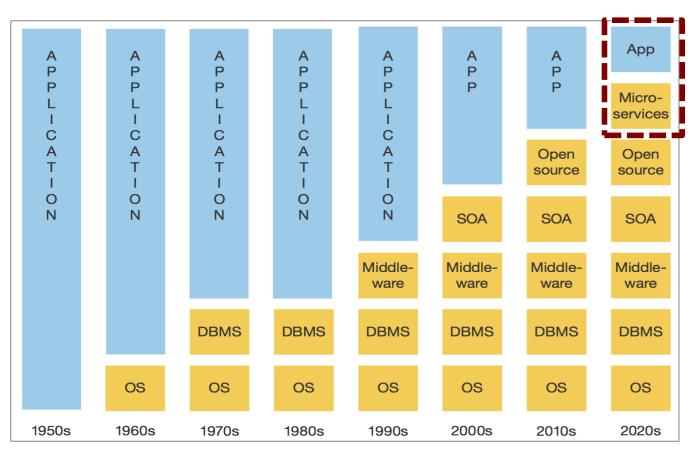


Defocus on stacks and hierarchy due to API atomicity and granularity



Evolution of Application Architecture for Digital Business

An evolving 4th tier for Modern Digital Applications driven by APIs and Microservices



Source: Forrester; Application Modernization, Service By Microservice; Nov 2015



Microservice Architecture

The old way: monolithic app

Request for order_status.html
//get user object

0.6 s

//get order details for orderId

//get product details in order

Response returned, page renders

- Pages are slow to load (all at once)
- Rewriting: all the code is in the app
- Pages are mostly static
- Quality/Agility suffers: Updating any piece requires re-testing the full app

The new way: microservices

Request for order_status.html
//get user object
Response returned, page renders

Request for getOrderById
//get details for order
Response returned, added to page

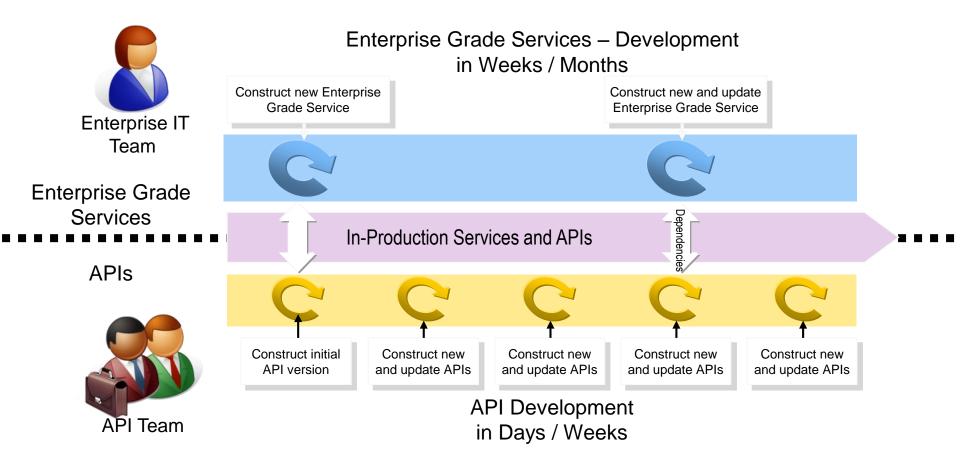
Request for getProductDetailByIds
//get product details by ID
Response returned, added to page

0.2 s

- Pages are fast to load (with minimal data)
- Reusable: Other apps can reuse microservices (multi-channel: web, mobile, IoT, B2B etc.)
- Pages are more dynamic (update when needed)
- Quality/Agility: Updates are localized to an API



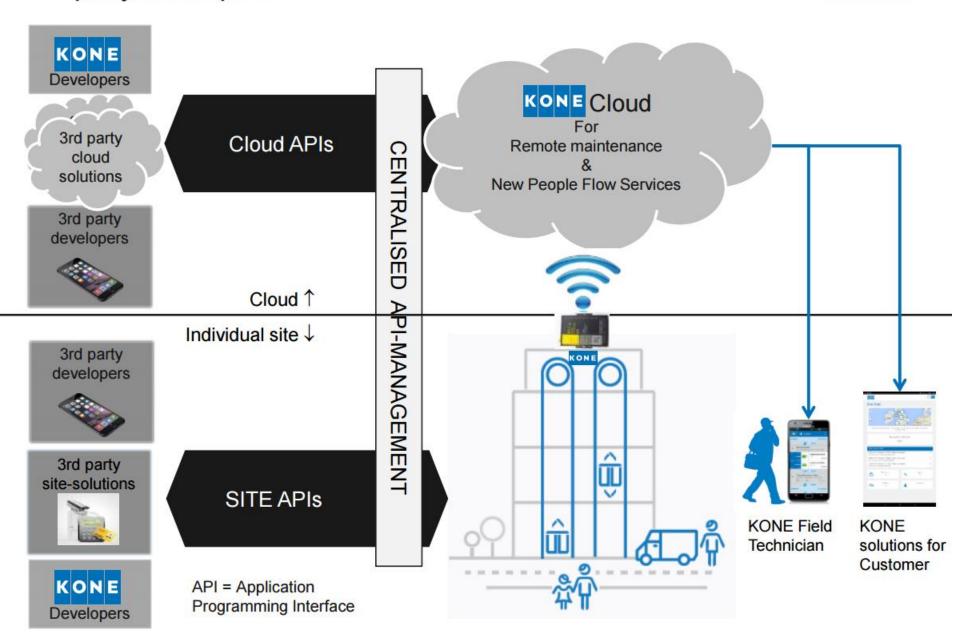
API DevOps: Separate the SOA and API Lifecycles





KONE equipments connected to the cloud with APIs available to 3rd party developers





IBM API Connect: Capabilities Delivered

- Rapid model-driven API creation
- Data source to API mapping automation
- Standards-based visual API spec creation in Swagger 2.0
- Local API creation and testing
- On-cloud & on-premises staging of APIs, Plans & Products
- Policy enforcement
- Enterprise security
- Quota management & rate limiting
- Content-based routing
- Response caching, load-balancing and offload processing
- Message format & transport protocol mediation



- Node.js & Java Microservice runtime
- Node.js & Java integrated runtime management
- Enterprise HA & scaling
- On-cloud & on-premises staging of Microservice applications

- API discovery
- API, Plan & Product policy creation
- API, Plan & Product lifecycle mgmt.
- Self-service, customizable, developer portal
- Advanced Analytics
- Subscription & community mgmt.





POST /questions

GET /answers