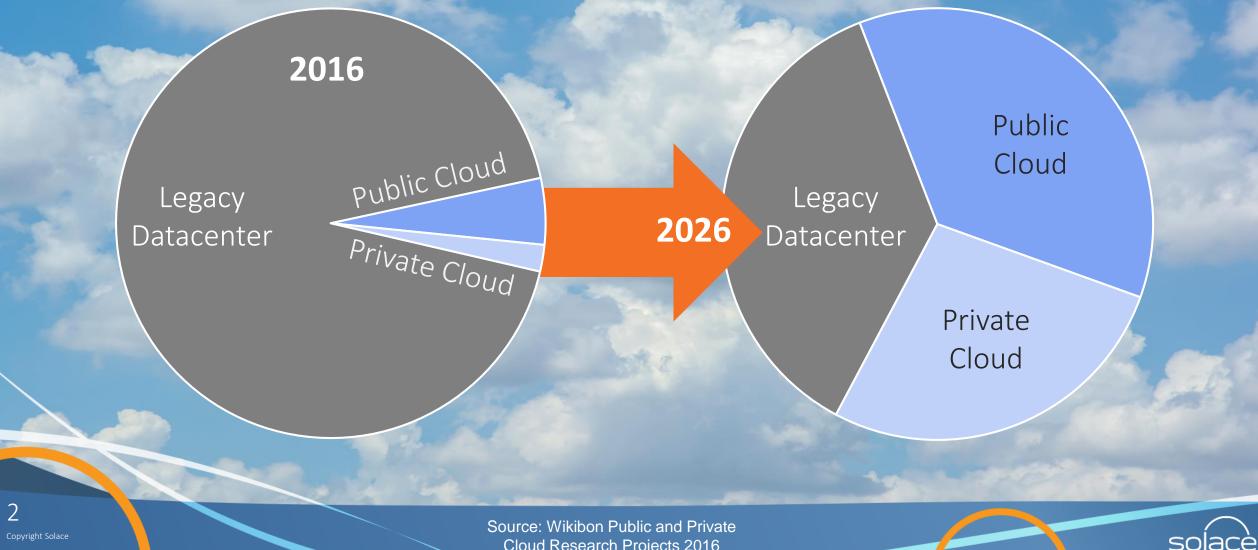
Solace Digital Data River

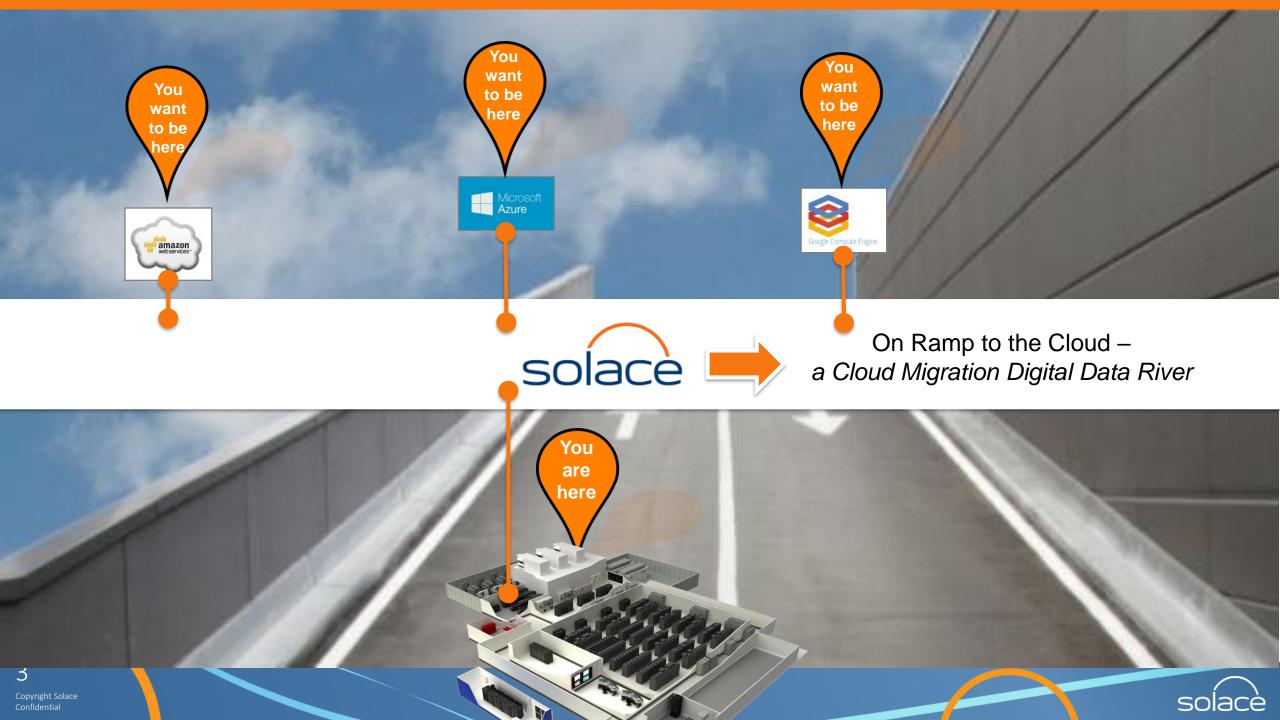
APIs, Microservices, ESBs, Event Driven Architecture, Big Data Lake feeding, Pub Sub, Request Reply, Slow consumer Isolation, HA, DR, Hybrid Cloud and more



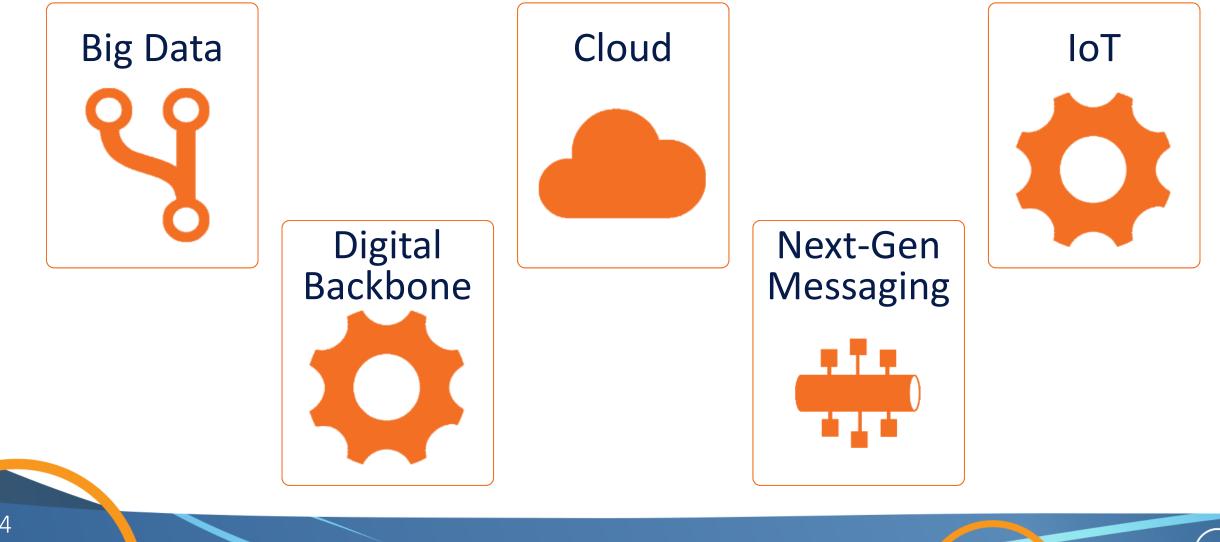
The shift to the cloud is on...



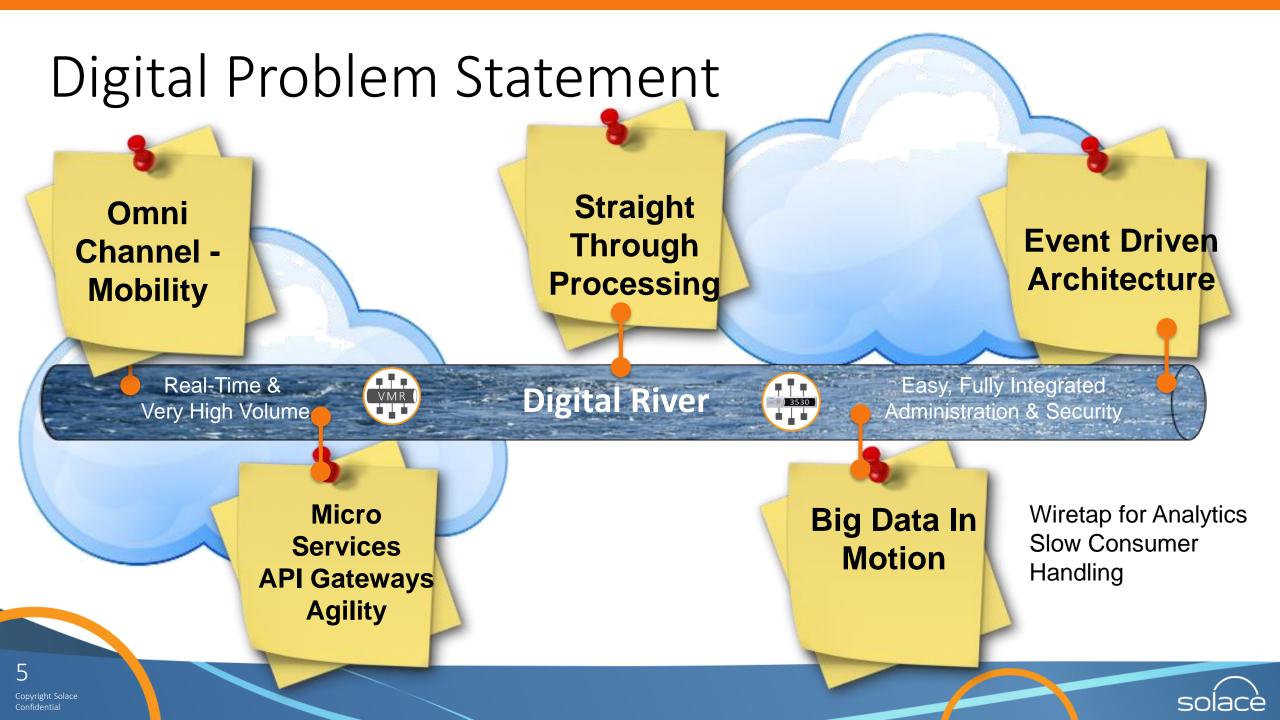
Cloud Research Projects 2016



Open Data Movement The Major Industry Trends

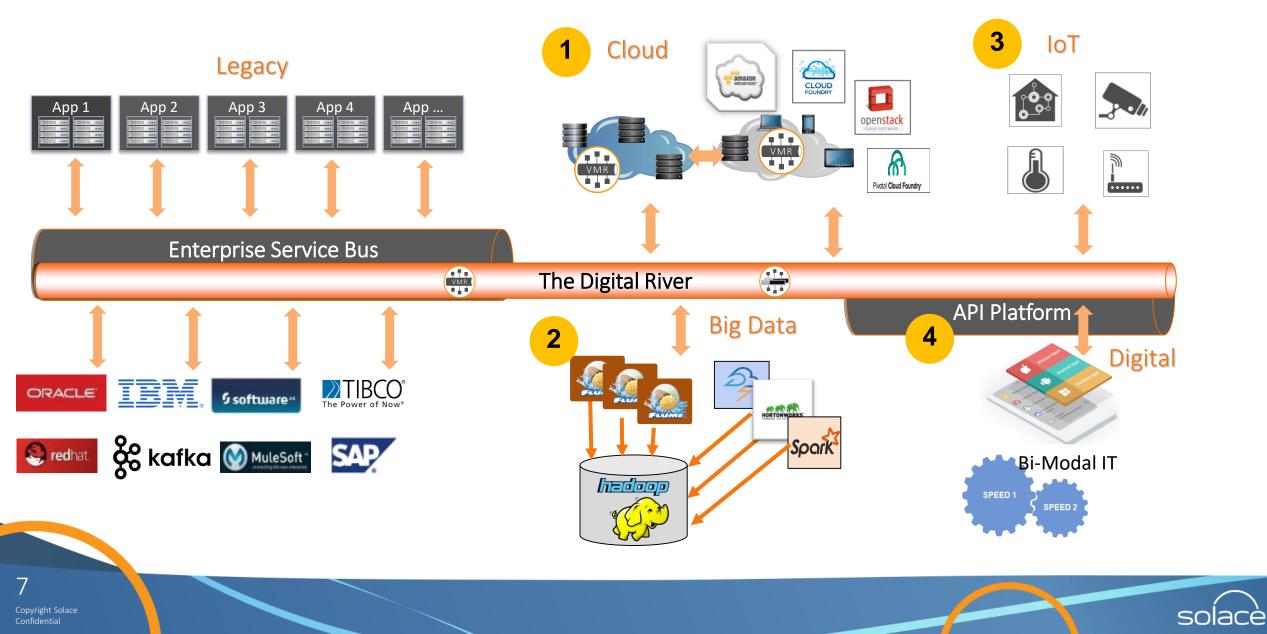


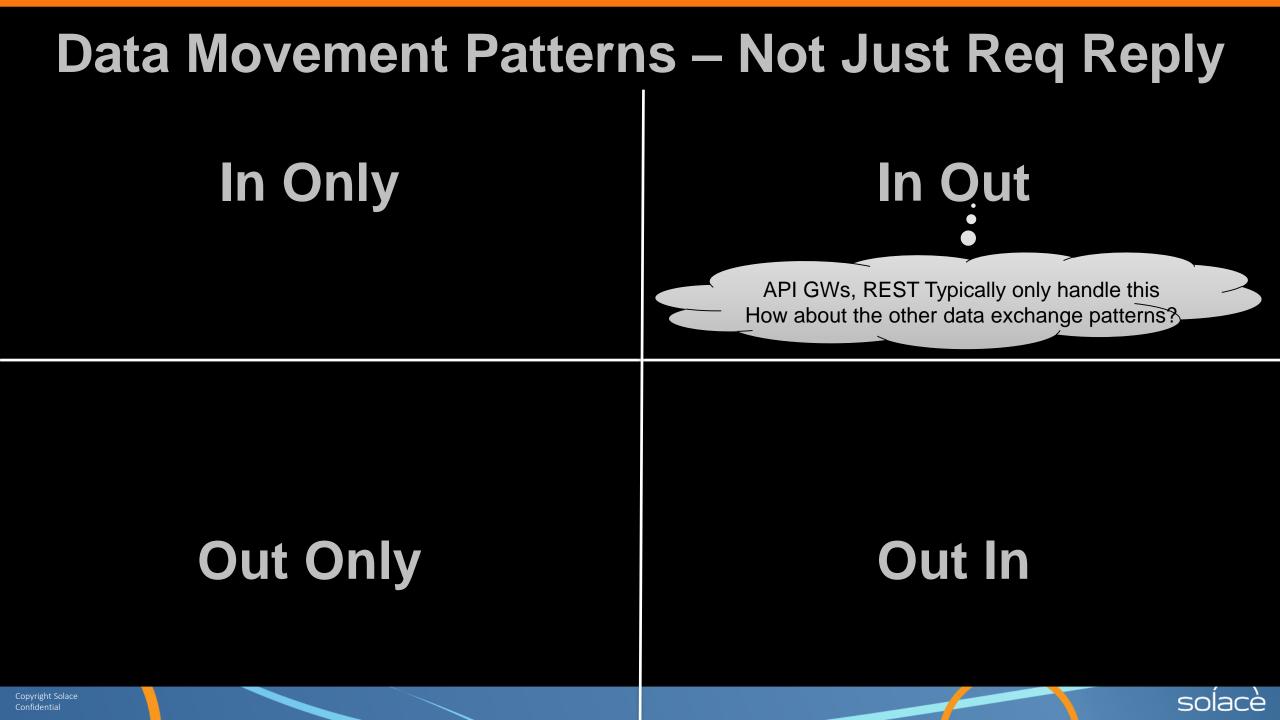
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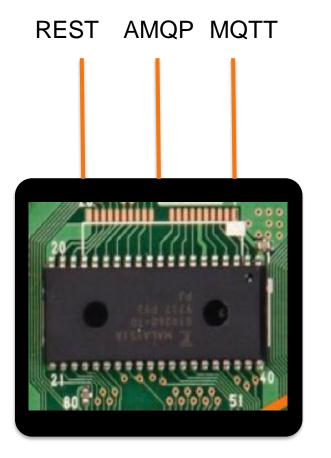
Open Data Movement lets you migrate your business to the cloud and connect any device anywhere A single data sharing fabric that links all of your applications across all of your environments

Solace as a Digital River – from APIs to Core to Cloud to Big Data

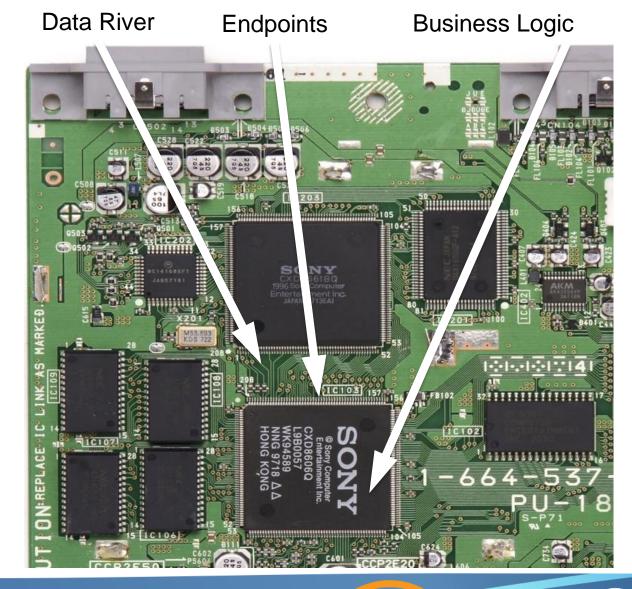




Microservices



Solace is the "glue" which allows Microservices to self orchestrate in an Event Driven Architecture

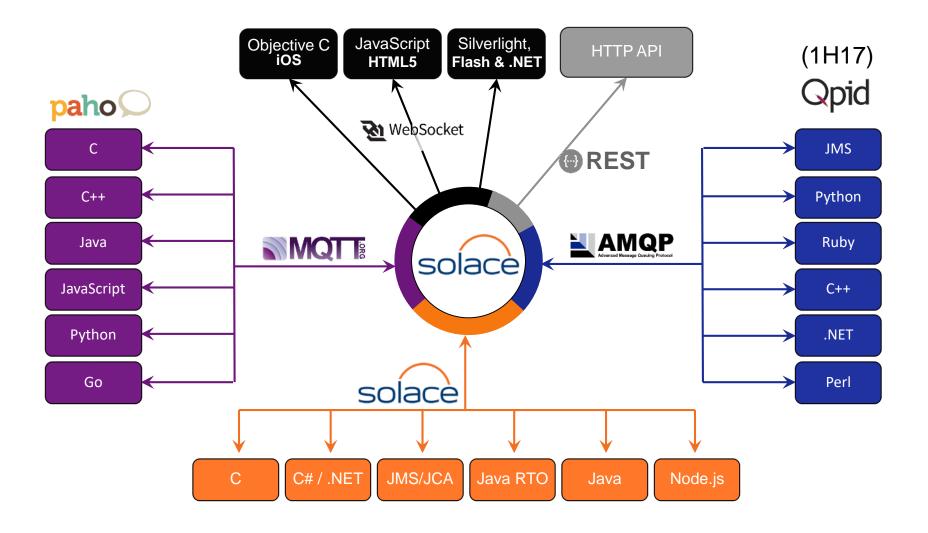


9



Open APIs & Protocols

- Data movement
 is MANY
 problems
- Use the right tool for every job
- Bridging between all APIs



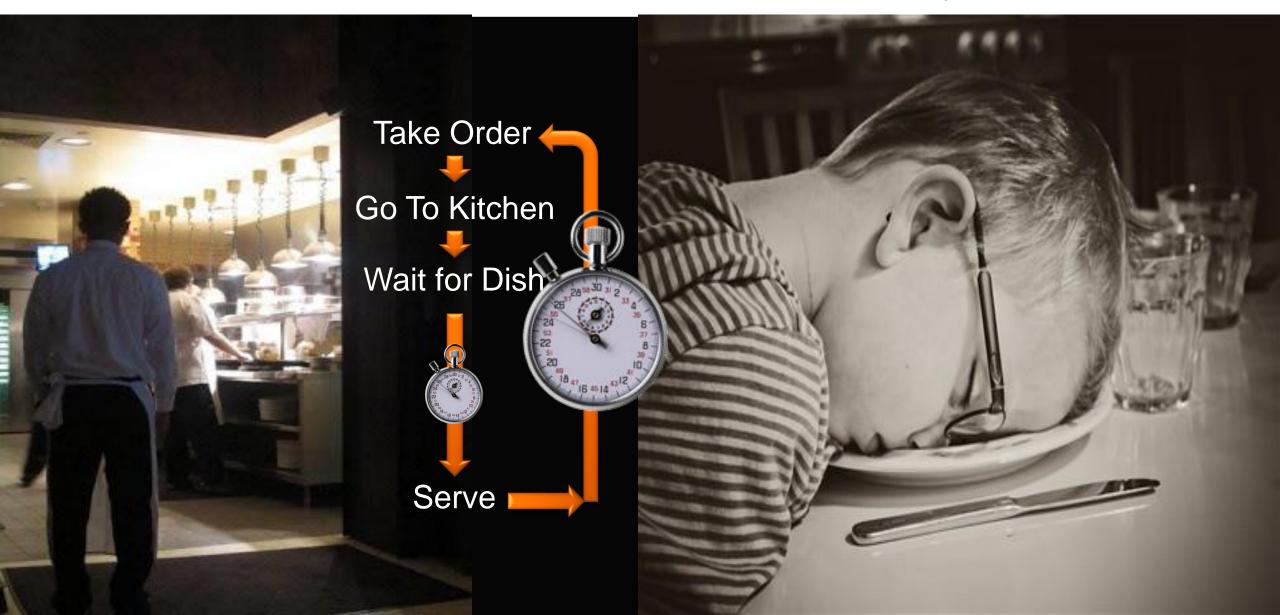
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REST Assured and Waiter Pattern – Better Response Time at Scale

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Income Tax eFiling - The Waiter Pattern - Sync Waiter Restaurants Don't Work This Way!!



Income Tax eFiling - The Efficient Waiter Efficient waiters are not "request reply", but "async"

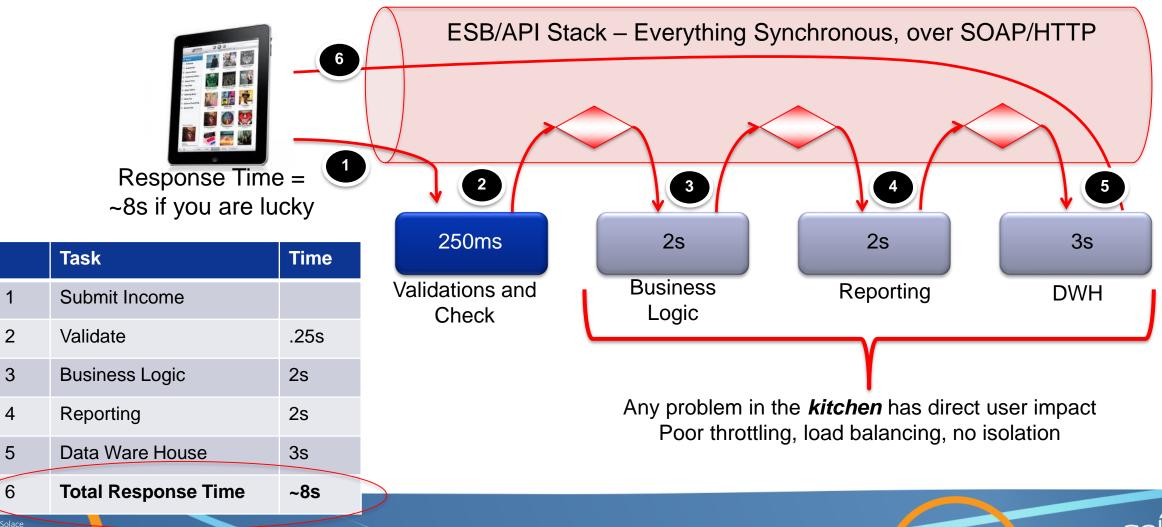
Take Next Order Submit To Kitchen **Dish Ready?** Serve

- Waiters take the order, validate and move to the next table
- Food is served via a *callback*
- This proven pattern is the only one with which mobile apps scale

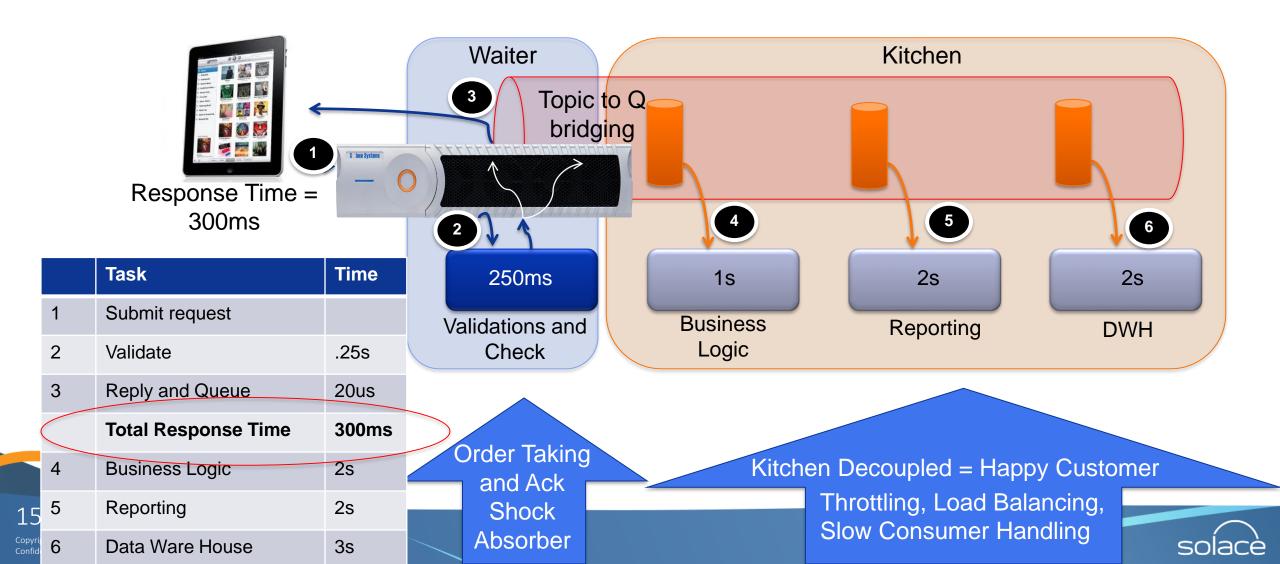


So why do ESBs/API GWs work differently? Because they were built with HTTP shortcuts

Payment, Flight Booking, Telco Orders etc – The SOA Way An order is an order is an order – Payment, Telco, Mining



Responsive APIs - Waiter Pattern – The Event Driven Way Much Higher Throughput, Much Better Response Time and Stability



Event Driven Architecture

Self Orchestrating MicroServices





In the beginning there was no REST



RESTIess days and nights

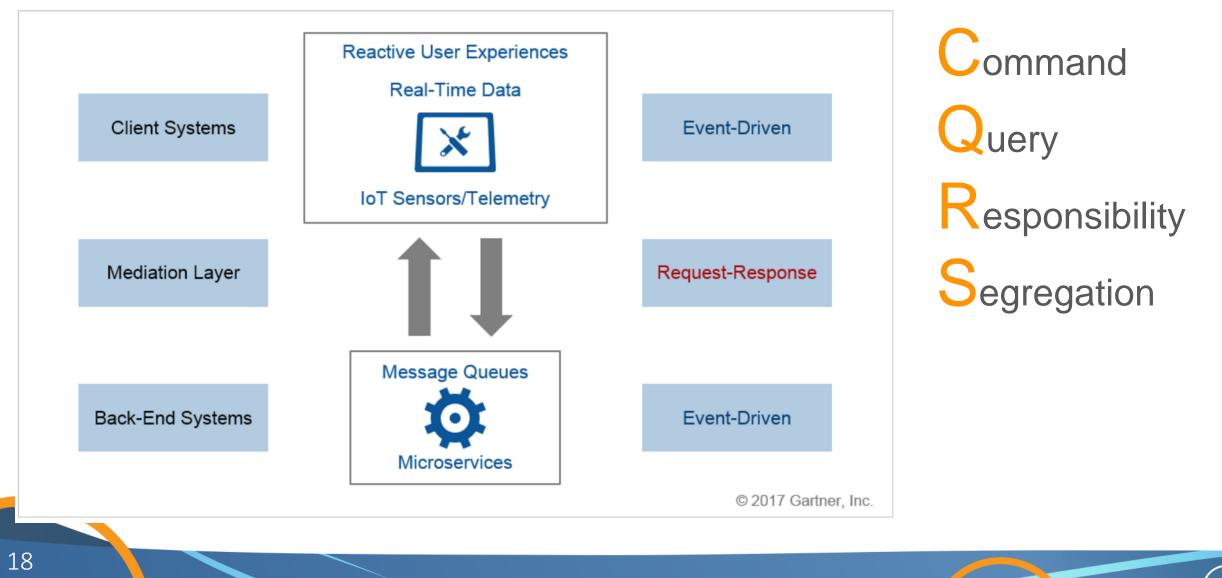
Help	Open Beope F4 F5	en <u>Print</u> Figd F6 F2	Copy P Copy P Copy Pg Bar F7 F			-
REPORT-1A 07/31/199 AREA/		scicc SAM	PLE CONTROL	TOTALS BY	DIVISION	1
DIVISION	REGION	GROSS	EXPENSE1	EXPENSE2	COUNT	<u>•</u>
10001						_
10001	10	4,537,955.30-	5,100.00-	.00	2	-
10001	18	-2,086,572.19	-1.940.73	1.000.00	19	_
10001	30	(182,278.43)	(30.00)	.00		
10001	42	8,781,387.65DB	.00	1,500.00		
10001	43	209,763.01db	.00	.00		
10001	46	374,581,409.14CR	57,430.54DB	1,677,766.72	5	
10001	47	94,607,014.40cr	.00	188,304.38		
10001	48	88,316.54	.00	.00		
10001	56	10,270,858.01	31,631.87db	16,141.81	1	
10001	57	14,607,781.18	.00	.00		
10001	58	478,384.64	.00	.00		
10001	59	7,510,761.24	.00	1,200.00		
10001	60	42,050,758.13	290,277.32CR	127,815.39	565	
10001	61	56,692,016.18	11,040.64cr	85,622.08	217	
10001	62	3,487,976.08	1,526,728.16	204,677.42	2	
10001	64	15,058,472.40	6,281.97	3,313.60	8	
10001	65	124,752,634.30	55,680.22	15,825.35	6	
10001	71	70,907.69	.00	.00		
10001	73	5.866.884.77	22.00	.00		
10001	75	5,858,917.56	.00	.00		
10001	76	64,515,051.60	7,947.08	.00	1	
10001	79	.00	.00	.00		
10001	80	7,988,907.67	16,931.23	3,564.73	29	
•						•







The Impact of Event-Driven IT on API Management



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REST Assured!

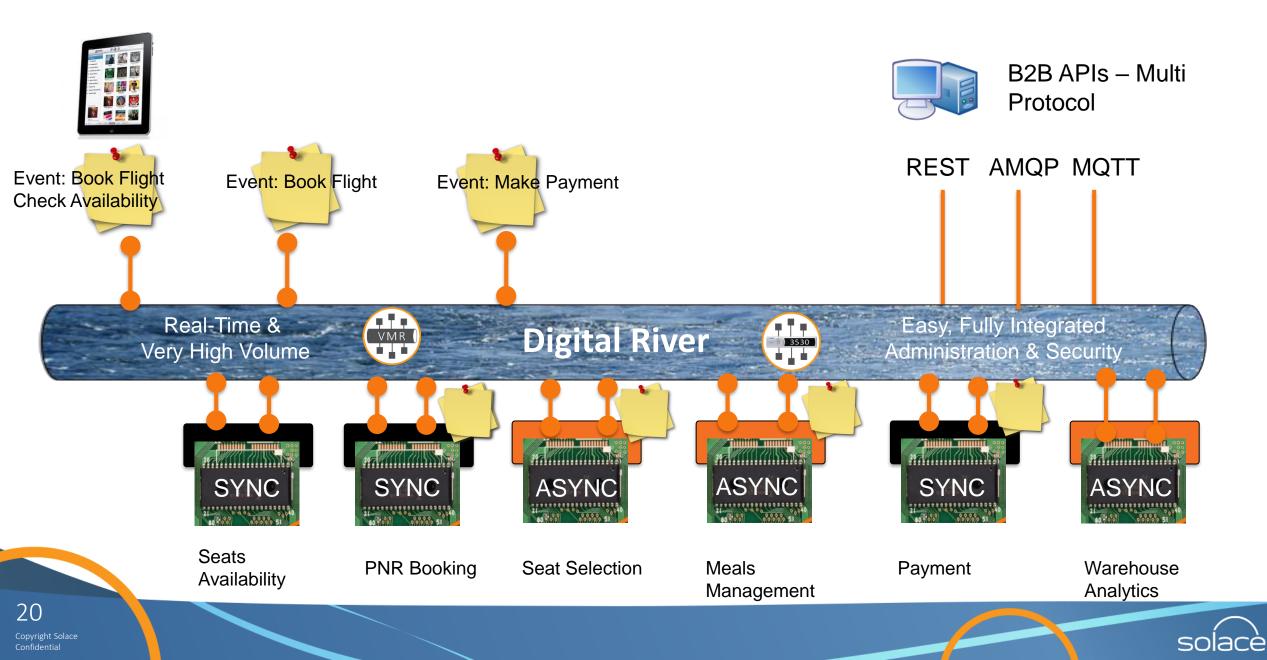
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Zero Downtime, Zero Message Loss Lossless REST - Never lose an Order Simple – No Web/App Servers Performance & Reliability Standards Based, Cloud Ready

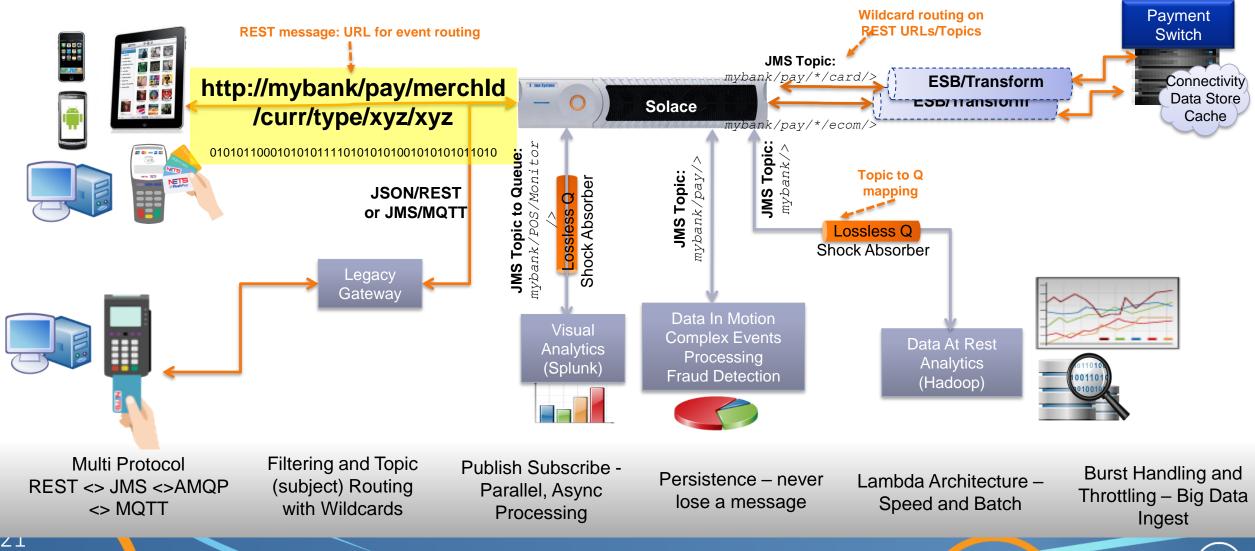
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Event Driven Orchestration



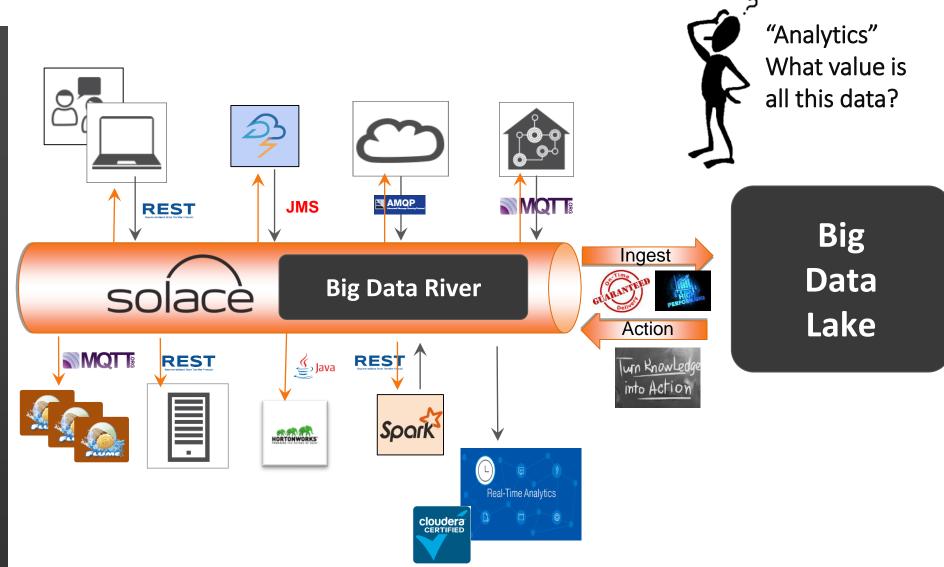
Scenario – Payments - Messaging as a Digital Backbone ePayments Straight Through Processing



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Big Data – Any Lake needs a River

- o Volume
 - Up to 26 M / sec
- Velocity
 - µSec Latency
- o Variety
 - All API/Protocol
- Veracity
 - Integrity

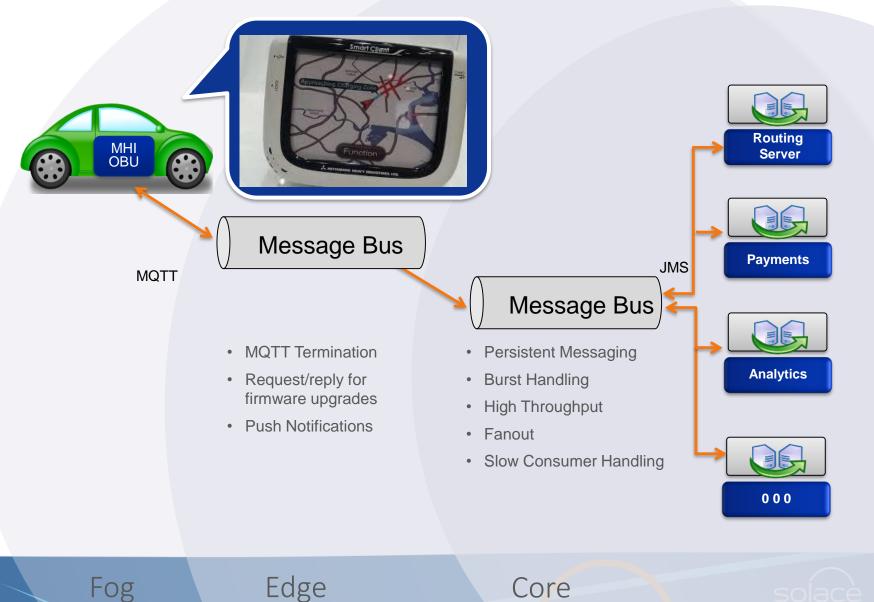




Data River and IoT Smart Cities: LTA Next Generation ERP



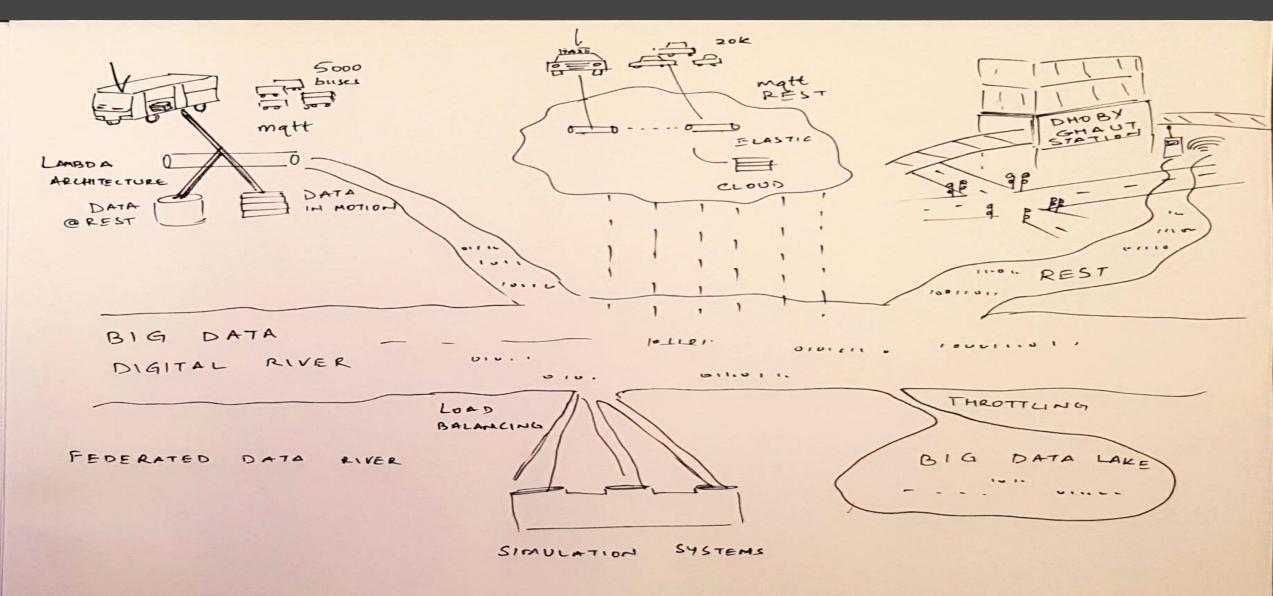
- Connect 1.5M vehicles (200K at a time) in real time for pay per use road tolls
- Suggest better routes, traffic management – real time and long term and value added services/analytics

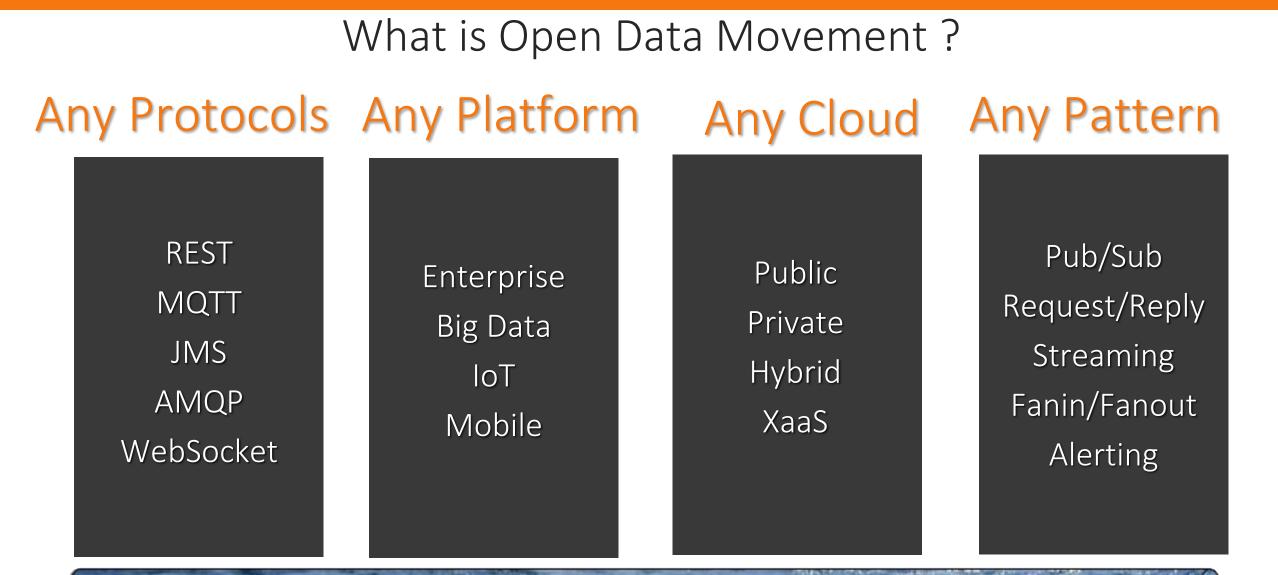


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Data River Advanced Analytics





The Digital River

Any to Any Data movement in Real-Time

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Thank You

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