The Intelligent Enterprise: Examples from the Front Lines

Session Id: ASUG82850

Timo Elliott
Global Innovation Evangelist, SAP





The Intelligent Enterprise: Examples from the Front Lines



Timo Elliott, VP, Global Innovation Evangelist, SAP

Internet of things

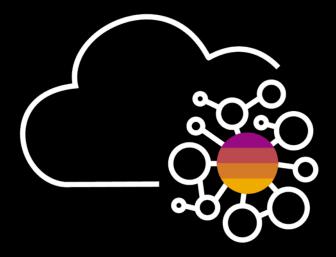
New business models

Mobile experiences

Analytics and predictive

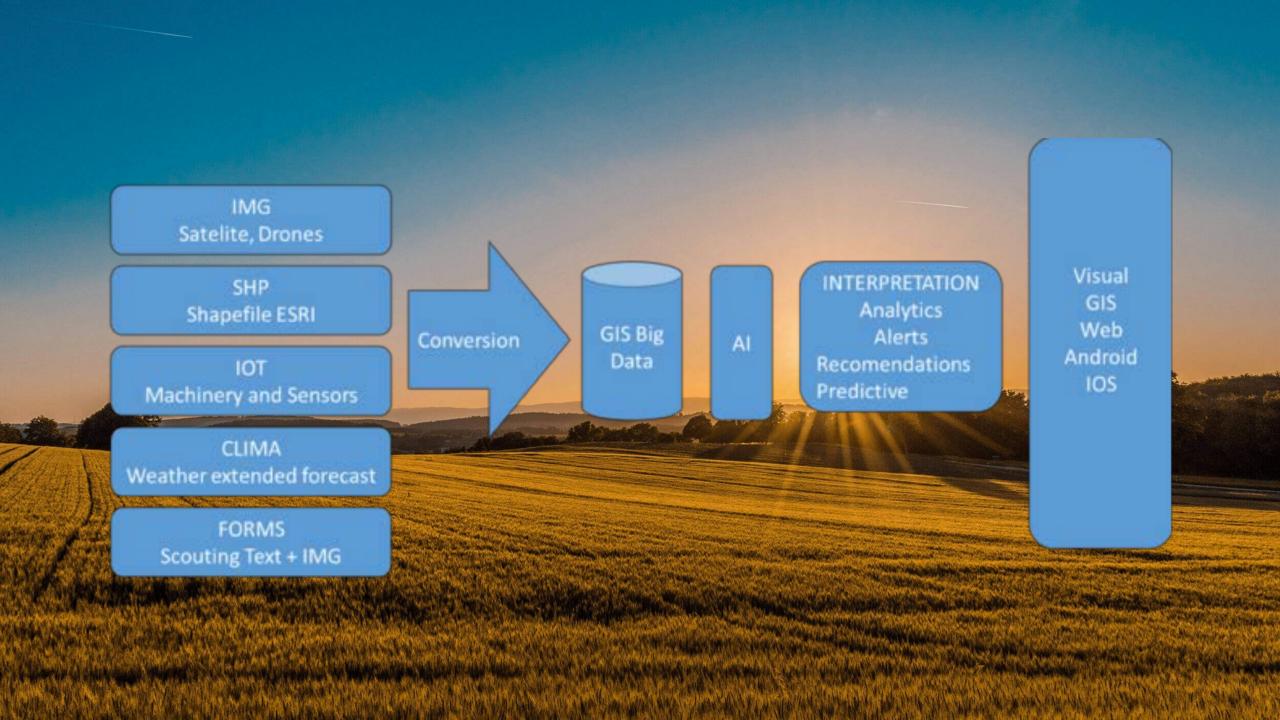
Blockchain

Internet of things

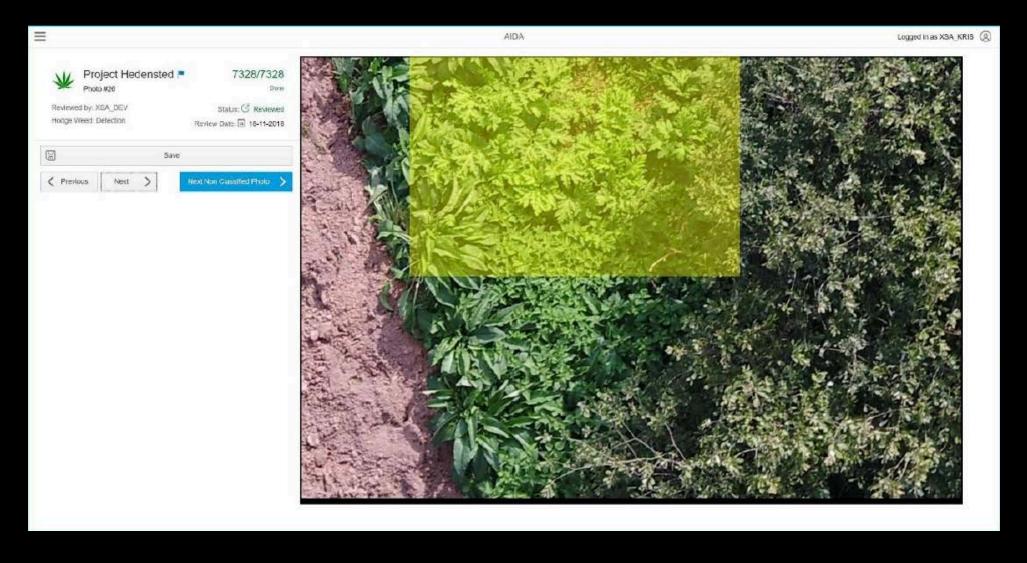


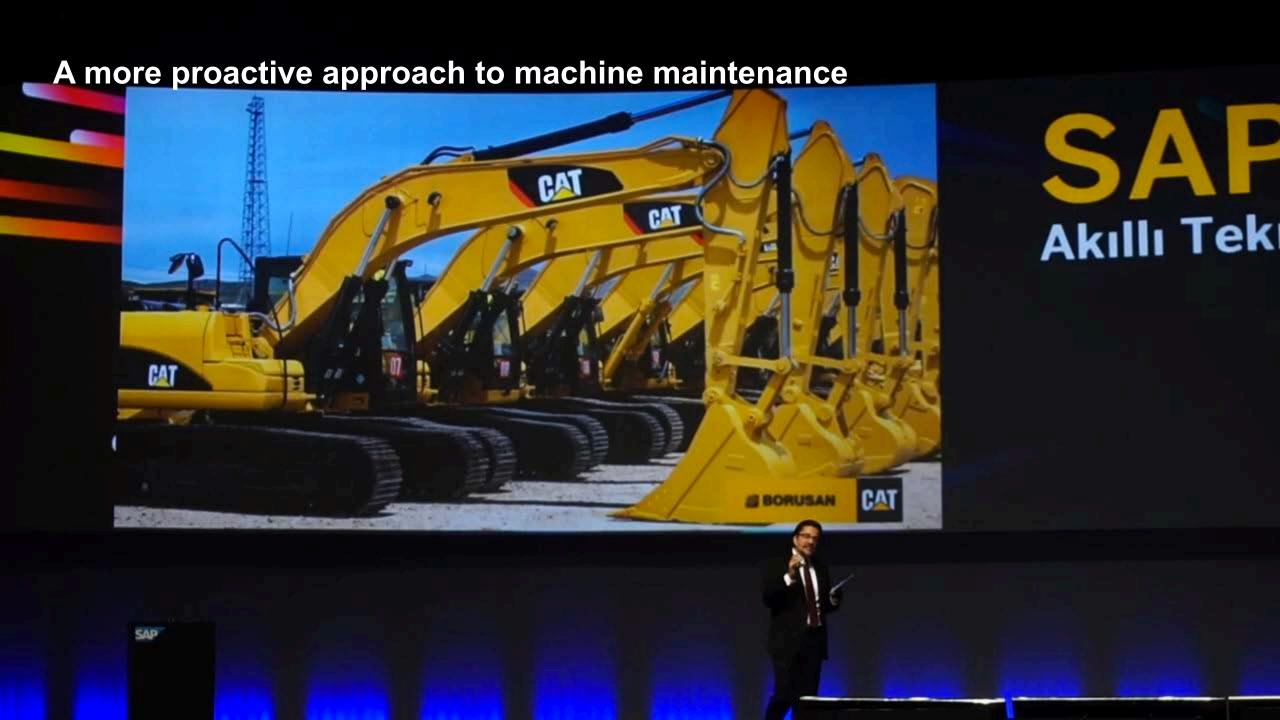






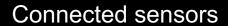
Spotting Giant Hogweed – by Drone!





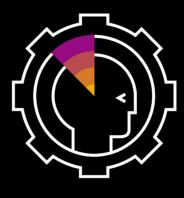
A more proactive approach to maintenance







SAP HANA



Machine Learning



User interfaces

Overview

Repair Cost

RepairCostNew (RepairCost)

148.00

634.01Million



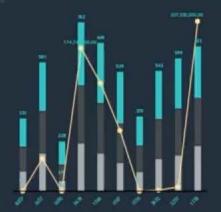
Evolution



Down Time

33,102.00 DaysSinceSved

3,368.00

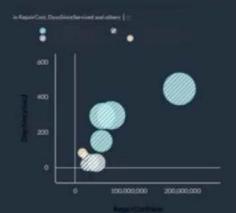






Repair Centers





Content

53







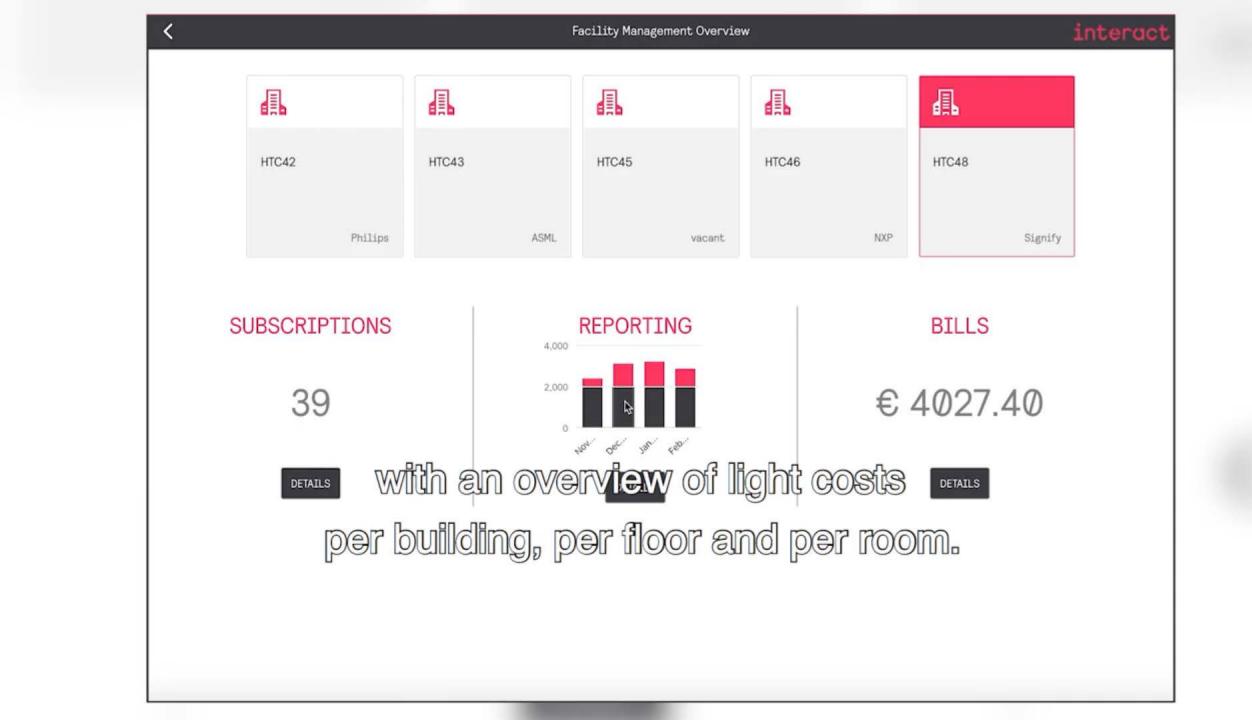




New business models



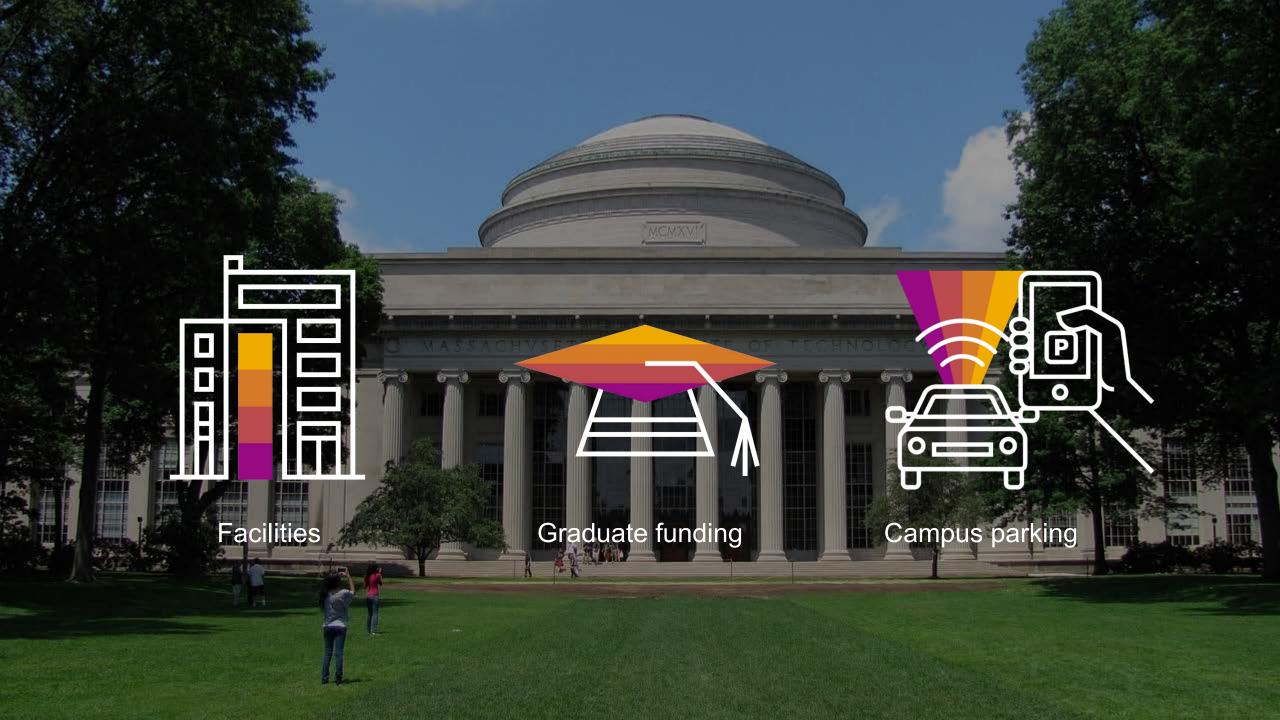




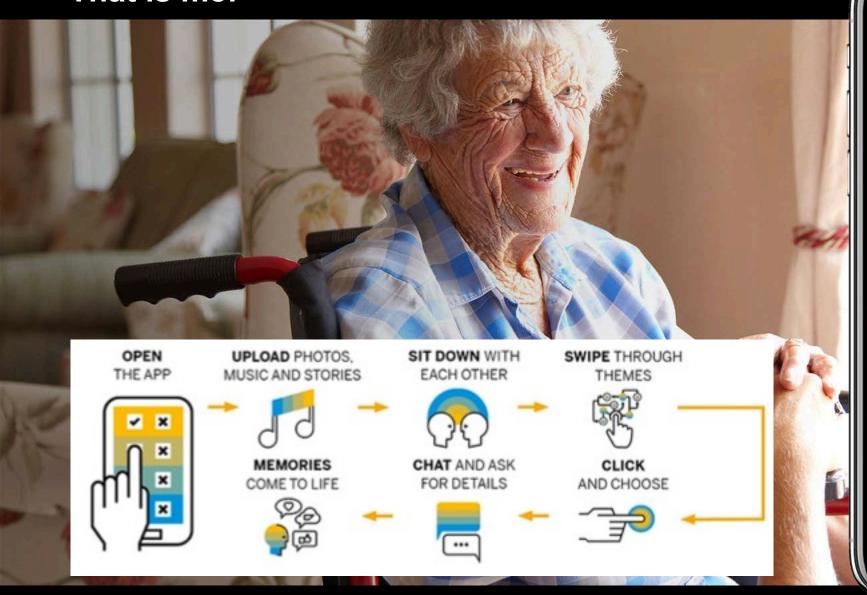


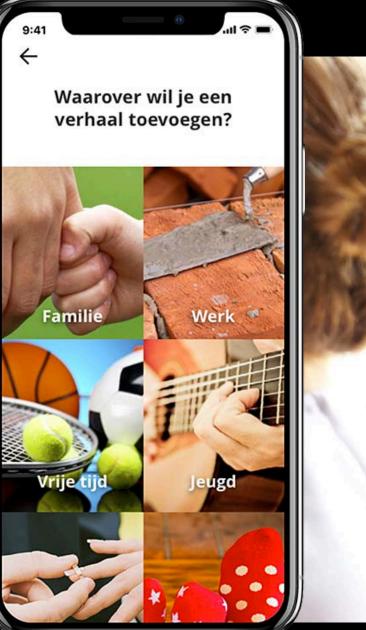
Mobile Experiences





"That is me!"







Transport Bot - SNCF Transilien

Active on Messenger









Transport Bot - SNCF Transilien Active on Messenger



Options



Leave feedback



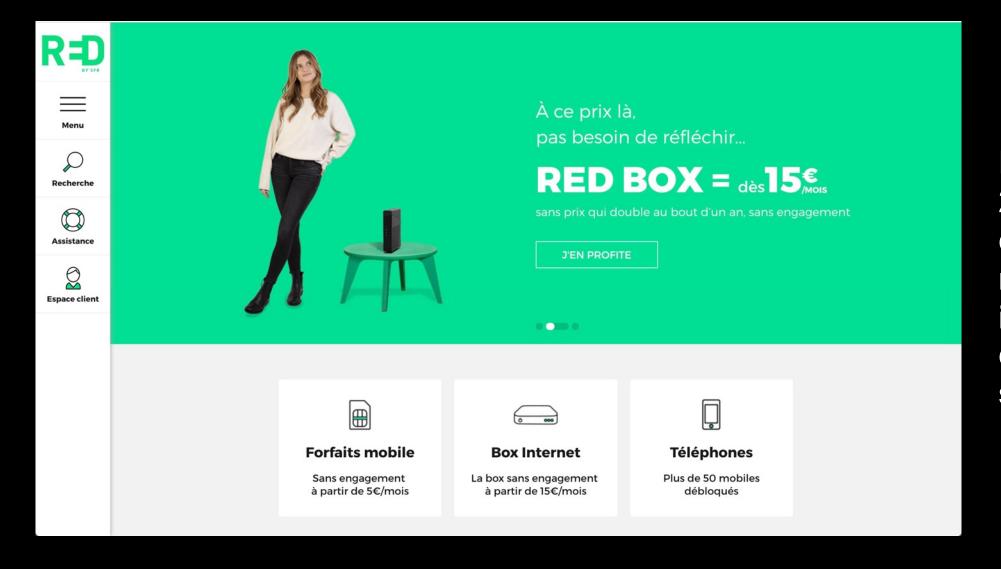
Notifications



Get Started



SFR bot



Fully manages
22% of all
customer
requests, with
increased
customer
satisfaction

Analytics and Predictive





Emergency room grease board

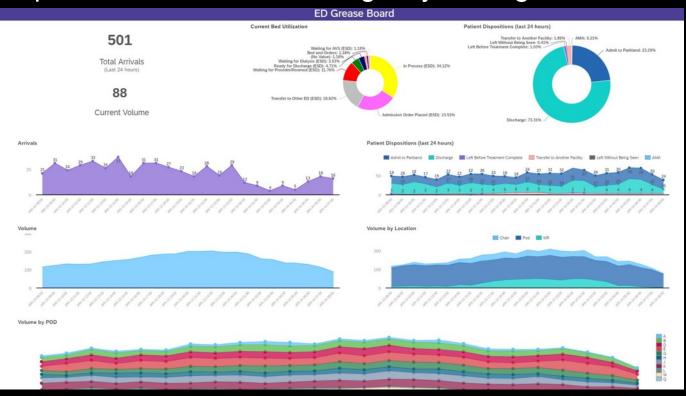
Snapshot of the new live emergency room grease board

Current Bed Utilization

Current ED Status

Arrivals and Volume

Trending Information
Distribution of ER
Patients to PODS



Automatically refreshes the data every 3 minutes showing near real-time data

24 hour ED Disposition Summary

Discharge Disposition Trending

Volume sliced by Location

Real-time stadium experiences







Real-time data de-identification through "differential privacy"

Original Data - GDPR Risk



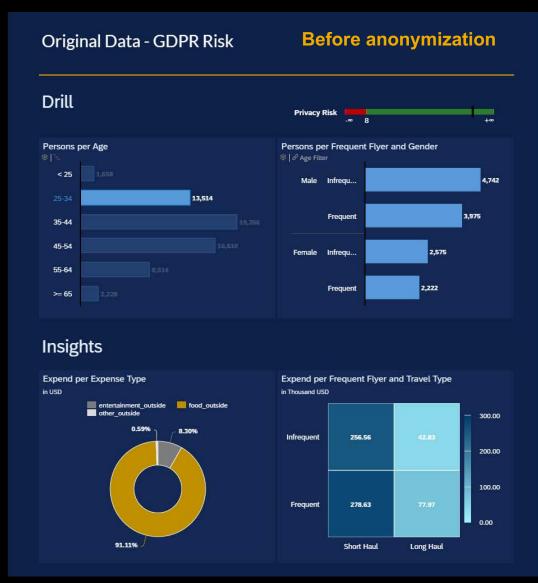
		V		×	<u> </u>	¥	
						ACCOUNT	Expend
AGE	PERS	EXPENSE	GENDER	REGION	TRANSACTION DATE	TRANSACTION TIME	
> < 25	00180	food_in	Female	NORAM	2017-03-11 (2017)	17:37:05	8.53
					2017-03-31 (2017)	18:29:23	16.92
		food_ou	Female	NORAM	2017-03-09 (2017)	22:11:22	18.46
					2017-03-09 (2017)	23:55:05	16.67
					2017-03-10 (2017)	15:37:13	9.44
	003d3	food_ou	Male	NORAM	2017-03-16 (2017)	17:11:44	142.16
	0040b	food_ou	Male	NORAM	2017-03-17 (2017)	22:43:14	5.04
	00941	food_in	Female	NORAM	2017-03-07 (2017)	15:40:43	16.60
					2017-03-23 (2017)	20:44:39	21.89
		food_ou	Female	NORAM	2017-03-09 (2017)	17:54:50	27.42
					2017-03-20 (2017)	17:03:04	7.47
	0099a	food_ou	Male	NORAM	2017-03-07 (2017)	19:18:27	160.82
	00b71	food_ou	Female	NORAM	2017-03-02 (2017)	04:18:11	128.68
	013e5	food_in	Male	NORAM	2017-03-07 (2017)	13:53:07	7.13
					2017-03-17 (2017)	12:29:49	12.56
					2017-03-22 (2017)	14:53:19	3.52

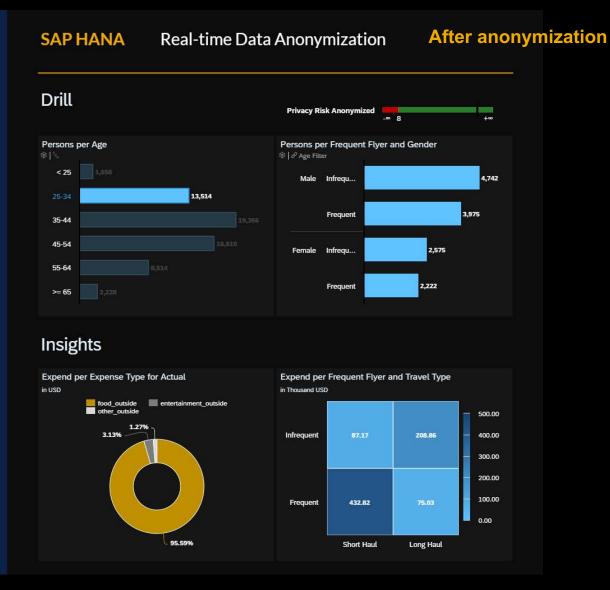
SAP HANA Real-time Data Anonymization

						ACCOUNT	7.xpend	
AGE	PERSON ID	EXPENSE T	GENDER	REGION	TRANSACTION DATE	TRANSACTION TIME		
< 25	00180826-5	food_inside	Female	NORAM	2017-03-11 (2017)	17:37:05	-672.86	
					2017-03-31 (2017)	18:29:23	-1,397.76	
		food_outsi	Female	NORAM	2017-03-09 (2017)	22:11:22	107.81	
					2017-03-09 (2017)	23:55:05	2,317.08	
					2017-03-10 (2017)	15:37:13	635.59	
	003d325f-0a	food_outsi	Male	NORAM	2017-03-16 (2017)	17:11:44	-2,001.30	
	0040bc4f-c4	food_outsi	Male	NORAM	2017-03-17 (2017)	22:43:14	1,540.00	
	009410d2-9f	food_inside	Female	NORAM	2017-03-07 (2017)	15:40:43	263.66	
					2017-03-23 (2017)	20:44:39	1,849.41	
		food_outsi	Female	NORAM	2017-03-09 (2017)	17:54:50	485.74	
					2017-03-20 (2017)	17:03:04	-2,253.09	
	0099a72d-1	food_outsi	Male	NORAM	2017-03-07 (2017)	19:18:27	-4,583.14	
	00b71c8a-fd	food_outsi	Female	NORAM	2017-03-02 (2017)	04:18:11	-8,852.4	
	013e5324-5	food_inside	Male	NORAM	2017-03-07 (2017)	13:53:07	-186.3	
					2017-03-17 (2017)	12:29:49	4,085.2	
					2017 02 02 (2017)			

Added "noise"

De-identified results very close to the original (Δ <5%)





"Embrace privacy by design"

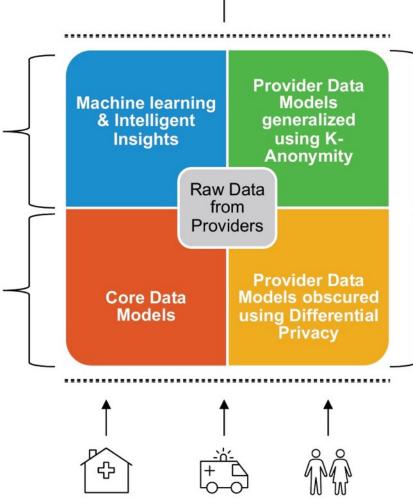


Meaningful Insights

- Discovery of key influencers and relationships
- Association of influencers to higher levels of care

Harmonized Data

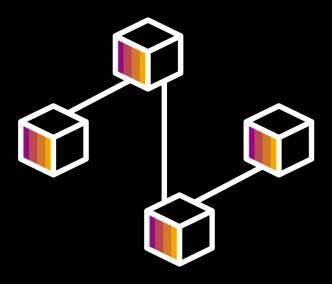
- Establishment of one semantic meaning across multiple providers
- One data dictionary definition
- Basic security and data masking



Anonymized Data

- Generalize personally identifiable attributes
- Obfuscate key figures while maintaining statistical relevance
- Adherence to privacy regulations

Blockchain







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Presentation Materials

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Q&A

For questions after this session, contact me at timo.elliott@sap.com

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