

ORACLE

Oracle Global Leaders Program

June 24 - 16.15 CET

Oracle Global Leaders Summer Meeting EMEA 2020

Oracle Database Development Panel

InvestmentDataServices



Jörg Otto
IT Architect
IDS GmbH - Germany

retraced



Peter Merkert
CTO & Co-Founder
Retraced - Germany

MIGROSBANK



Markus Oschwald
Senior Software Analyst
Migrosbank - Switzerland

SUMIT
get value from data



Dr. Holger Friedrich
CEO
SumIT - Switzerland

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Complex SQL & Analytic Functions

| Internal |

Who we are – IDS at a glance



A 100% subsidiary of Allianz SE

2001

Established by seasoned experts as a spin-off from Allianz

20+

Years of experience in the financial industry

300+

Employees from 30+ nations



Offices in Munich and Frankfurt
Operations in Trivandrum and Krakow

» **IDS GmbH – Analysis and Reporting Services is the managed service provider for operational investment controlling services for institutional investors, asset managers and custodians.**

The way we work – Vertical & horizontal integration

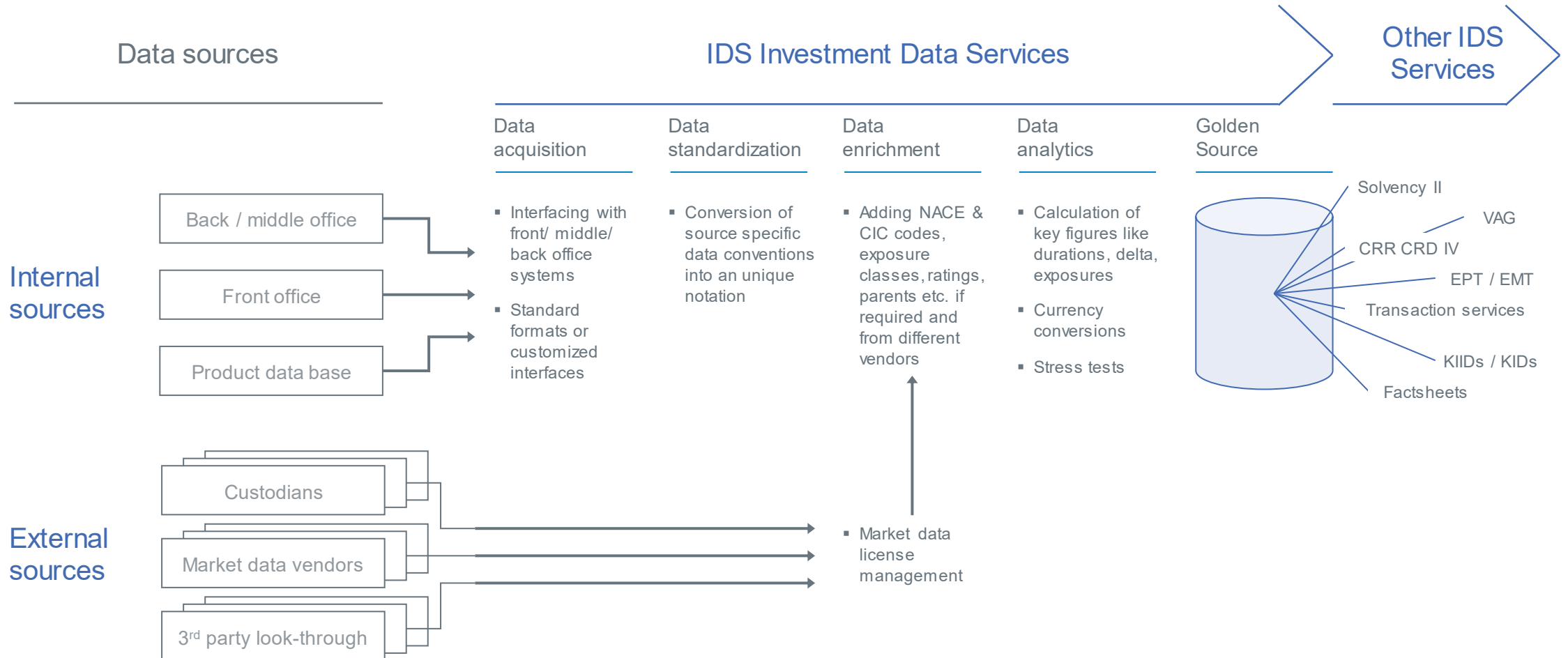
- › Report distribution
- › Report, file and document production
- › Data analytics
- › Data readiness for downstream services
- › Data acquisition, cleansing and enrichment
- › Application hosting and maintenance

One-Stop-Shop

- › One provider for all data management, analytic and reporting requirements
- › Data efficiency and consistency across all services
- › Minimization of efforts for vendor management
- › Flexible extension of services as needed



Overcome challenges by IDS



Use Cases for Analytic Functions at IDS

- What is most relevant investment metadata information?
→ **Rank**
- What is the 3-month moving average of stock price?
→ **Moving Window**
- What is the percentage of growth of 2019 premiums written over 2018?
→ **Period-over-period comparisons**
- What are January's net income as a percentage of the entire year's?
→ **Compare aggregates on different levels**
- What are deviations between delivered and market data?
→ **with_bucket, standard deviation**
- What is the ratio of an e.g. market value of an investment in a fund?
→ **Share holdings calculations**

Analytic Function - Types

- **Offsets & inter-row references**
 - lag, lead
- **Ranking**
 - cume_dist, rank, dense_rank, percent_rank, ntile
- **Reporting Aggregate**
 - sum, avg, min, max, variance, stddev, count, ratio_to_report
- **Statistical Aggregates**
 - correlation, linear regression, covariance
- **Window Aggregate**
 - min, max, count, avg, sum, variance, stddev, first_value, last_value
- **Partitioning**
 - over partition by

LAG/LEAD

Portfolio	Date	Index Series
1050	30.11.2006	398,32
1050	31.12.2006	412,07
1050	31.01.2007	420,14
1050	28.02.2007	417,32
1050	31.03.2007	433,95
1050	30.04.2007	454,14
1050	31.05.2007	466,22
1050	30.06.2007	460,13
1050	31.07.2007	459,53

417,32	412,07	454,14	460,13	398,32	459,53
--------	--------	--------	--------	--------	--------

```
LAG(index_series_orig_gross, 3, NULL)
OVER (PARTITION BY portf_id ORDER BY val_date)
```

Example:
delivers last quarter value for index series comparison

LEAD (Ordering, Sorting)

```
SELECT imdi.imdi_anchor_id,
       imdi.imdi_valuation_date AS valid_from,
       LEAD(imdi.imdi_valuation_date)
         OVER(PARTITION BY imdi.imdi_anchor_id
              ORDER BY imdi.imdi_valuation_date) - 1 AS valid_until,
       imdi.imdi_f_asset_val_net AS net_asset_val
FROM ids.inmd_market_data_inv imdi
WHERE imdi.imdi_anchor_id = 'AN00054467'
```

Example:
delivers a time series for validity date

	IMDI_ANCHOR_ID	VALID_FROM	VALID_UNTIL	NET_ASSET_VAL
1	AN00054467	01.01.1990	30.03.2002	
2	AN00054467	31.03.2002	30.05.2002	202,71
3	AN00054467	31.05.2002	30.06.2002	207,88
4	AN00054467	01.07.2002	16.04.2003	207,88
5	AN00054467	17.04.2003	08.06.2003	142,4925
6	AN00054467	09.06.2003	30.08.2003	142,4925
7	AN00054467	31.08.2003	28.09.2003	155,09
8	AN00054467	29.09.2003	30.01.2004	155,09
9	AN00054467	31.01.2004	28.02.2004	157,591
10	AN00054467	30.02.2004	30.02.2004	162,512

RANK (Ranking, Sorting)

- **Prioritization of rows and rows in data sets (in window functions)**
→ Used to build waterfalls for views

```
SELECT *
FROM (SELECT imdi.imdi_anchor_id,
            imdi.imdi_valuation_date,
            RANK() OVER(PARTITION BY imdi.imdi_anchor_id
                       ORDER BY imdi.imdi_valuation_date DESC) AS rk,
            imdi.imdi_f_asset_val_net
FROM ids.inmd_market_data_inv imdi
WHERE imdi.imdi_anchor_id = 'AN00054467'
)
WHERE rk = 1;
```

Example:

delivers latest net asset value of an investment
usage of build-in optimizer features

Description	Cost	Object owner	Object name	Cardinality	Bytes	CPU
SELECT STATEMENT, GOAL = ALL_ROWS	39			103	7519	146
VIEW	39	SYS		103	7519	146
WINDOW SORT PUSHED RANK	39			103	2163	146
TABLE ACCESS BY INDEX ROWID	38	IDS	INMD_MARKET_DATA_INV	103	2163	504
INDEX RANGE SCAN	3	IDS	IMDI_UK	103		500

RATIO_TO_REPORT (Reporting)

- Computes the ratio of a value to the sum of a data set of values
 - Used to calculate breakdowns and distributions of investment classes

```
WITH
summe AS (
SELECT valid_until, cons_unit,
      SUM(exposure_eur) exp_eur,
      SUM(exposure_por) exp_por,
FROM vo_a_positions_aggregated
WHERE ...
GROUP BY ...)

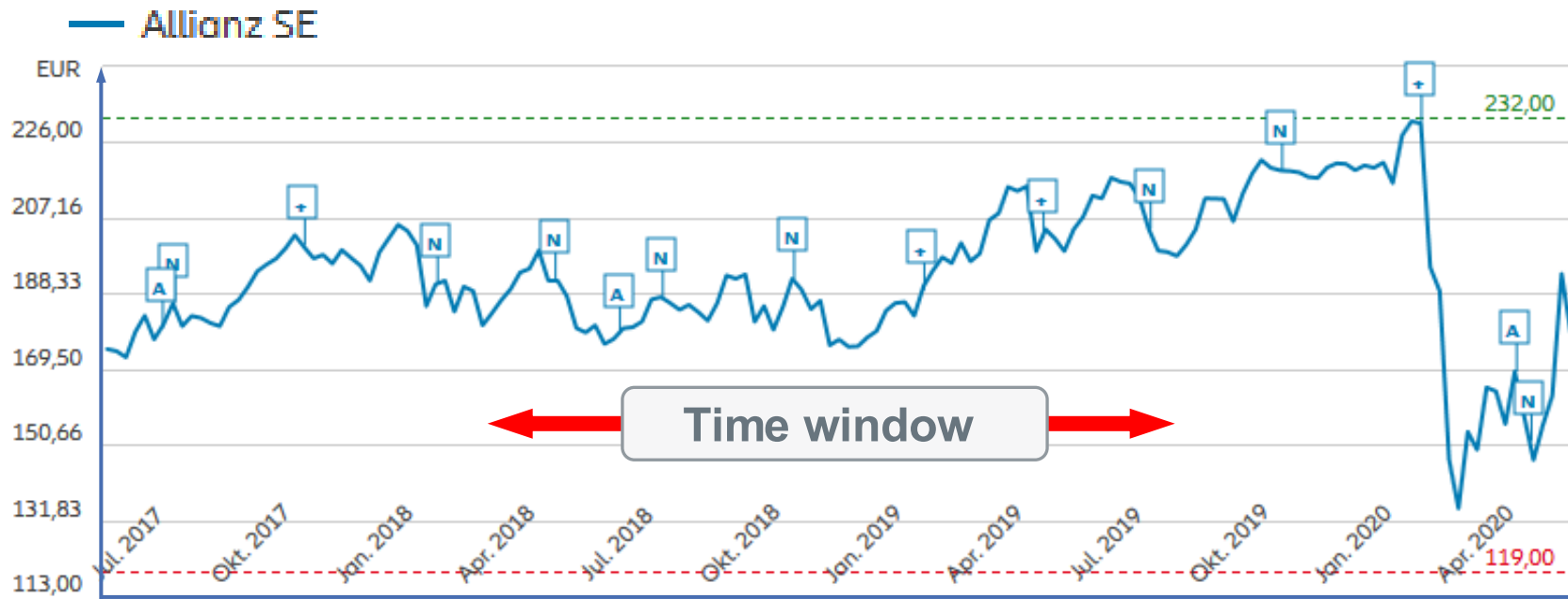
SELECT e.valid_until, e.cons_unit,
      e.scur_code, e.val,
      100 * SUM(e.exposure_eur) / s.exp_eur
      100 * SUM(e.exposure_por) / s.exp_por
FROM vo_a_positions_aggregated e, summe s
WHERE e.valid_until = s.valid_until
      AND e.cons_unit = s.cons_unit
GROUP BY ...
```

```
SELECT val_date, cons_unit, sub_unit
      RATIO_TO_REPORT(SUM(expo_eur))
      OVER (PARTITION by val_date, cons_unit) as "%",
      SUM(expo_eur) expo_eur,
FROM vo_a_positions_aggregated
WHERE ...
GROUP BY ...
```

Example:
delivers latest exposure distribution of subfunds

VAL_DATE	CONS_UNIT	SUB_UNIT	%	EXPO_EUR
30.06.2012	ITx2	ITxx2	100	18561518
30.06.2012	ITx3	RJP	3,8045	694446
30.06.2012	ITx3	AUD	11,1122	2028351
30.06.2012	ITx3	RUD	28,4859	5199641
30.06.2012	ITx3	ACH	3,2193	587632
30.06.2012	ITx3	RCH	29,4063	5367654
30.06.2012	ITx3	EUV	23,5506	4298778
30.06.2012	ITx3	AJP	0,4213	76906
30.06.2012	ITx3	ITxx3	100	91713357

OVER PARTITION BY (Moving time window)



- Impairments
- Inv. Performance
- Portf. Hierarchies
- Price Series
- ...

```
SELECT AVG(last_price) over
(PARTITION BY inv_id, exchange, vendor ORDER BY val_date
RANGE BETWEEN INTERVAL '3' MONTH PRECEDING AND INTERVAL '1' DAY PRECEDING) avg_price_month...
```

ROLLUP, CUBE (Aggregation, Clustering)

Rollup

Portfolio	Type	SUM market value
4547	A	-2.434.690
4547	C	-13.638.163
4547	F	78.300.073
4547	S	2.165.730.474
4547	X	-943.969
4547		2.227.013.724
4551	A	-1.971.228
4551	C	32.572.552
4551	S	714.799.433
4551	X	-24.653
4551		745.376.105
		2.972.389.829

Cube

Type	4551	4547	Total
A	-1.971.228	-2.434.690	-4.405.918
C	32.572.552	-13.638.163	18.934.389
F		78.300.073	78.300.073
S	714.799.433	2.165.730.474	2.880.529.907
X	-24.653	-943.969	-968.622
Total	745.376.105	2.227.013.724	2.972.389.829

- Used to classify & aggregate data for types of investments (eg. Stocks, funds, derivatives etc.)
→ „Excel“ in the database
- Used to aggregate data for portfolio hierarchies

WIDTH_BUCKET (Statistical distributions)

REEV effect
(per portfolio and asset type)

=

$$\frac{\text{SUM}(\text{MVreev} - \text{MVbo})}{\text{SUM}(\text{MVbo})}$$



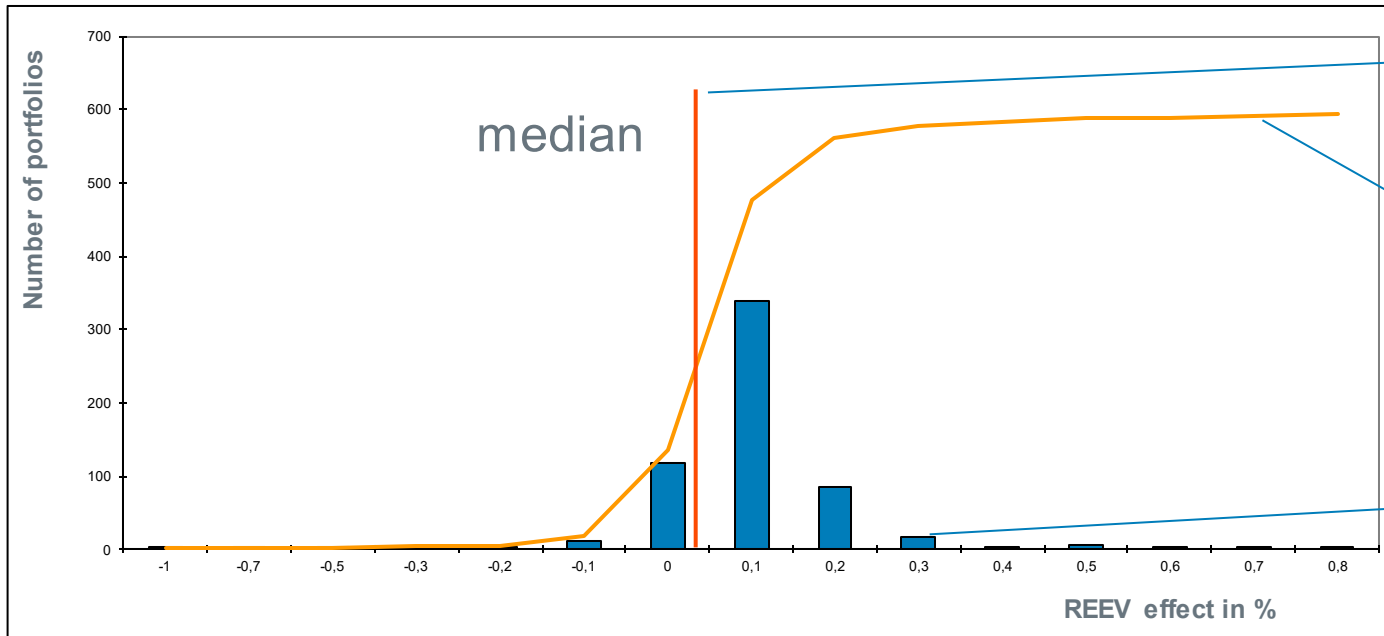
Reev eff.group = **WIDTH_BUCKET(REEV effect, -0.01, 0.01, 20)**

WIDTH_BUCKET creates 20 Reev effect equiwidth intervals (buckets) between -0,01 and 0,01 and returns for each row the bucket number



Count number of portfolios within each Reevaluation effect group to create a histogram

Data Distribution Analysis



PERCENTILE_DIST(0.5)

CUME_DIST

**WIDTH_BUCKET +
COUNT/GROUP BY**



- Indicator for data quality e.g. possibility to find spikes in data
- Smoothing of spikes

Conclusion

- Reliable with good performance
- Process the data in one go
- Code is compact and easy to read (if you have understand the function... 😊)
 - Simplifies SQL
- Most of the analytic functions could be replaced by multiple queries
 - But DB has to scan the tables multiple times
- Analytic functions do a sort operation on the data set.
If this data set is too big (millions of rows) Oracle may need to reserve a large amount of memory/TEMP disk space
- Higher system loads possible
- MODEL clause is processed in memory
 - Large data set may need to be swapped to disk.

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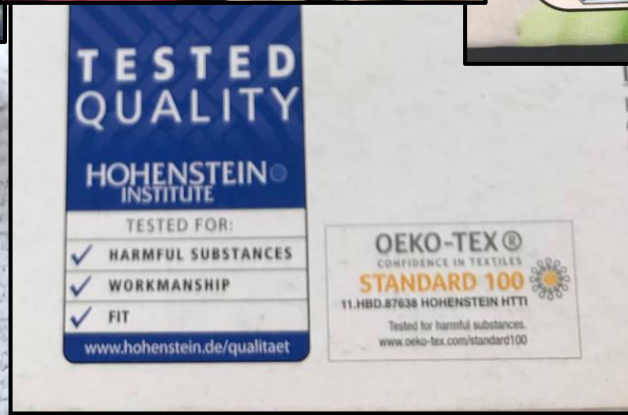


Dr. Holger Friedrich
CEO
SumIT - Switzerland

**SCALE WITH MICROSERVICES
AND AUTONOMOUS DATABASE TO
INFINITY**

Presented by Peter Merkert, retraced GmbH

**CONSUMER TRUST THROUGH SUPPLY
CHAIN TRANSPARENCY**



FASHION BRANDS HAVE A PROBLEM

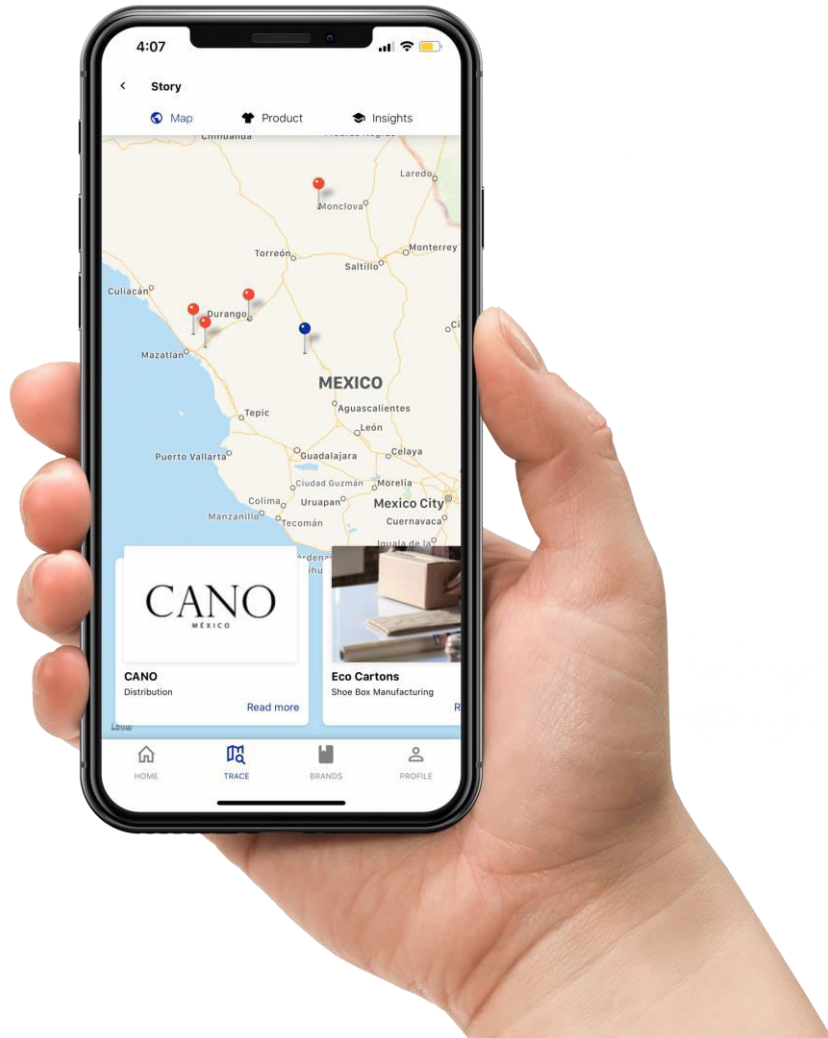
Consumers lost trust in fashion brands long time ago. We are here to reestablish the relationship by providing honest and relevant information for consumers.

CONSUMERS LOST TRUST



TRANSPARENCY AS A SERVICE

We offer supply chain transparency as a service. Since our pricing starts for free, this is a no-brainer to use for fashion brands.



RELEVANT INFO

We are constantly running market studies to investigate consumer demands to make all honest information **simple**.



RELIABLE DATA

Blockchain based **temper proof** audit log. Every consumer can inspect what really happened.



EASY TO IMPLEMENT

Reevolutionary lightweight integration into existing platforms. This means from **ordering till webshop** – we got all covered.

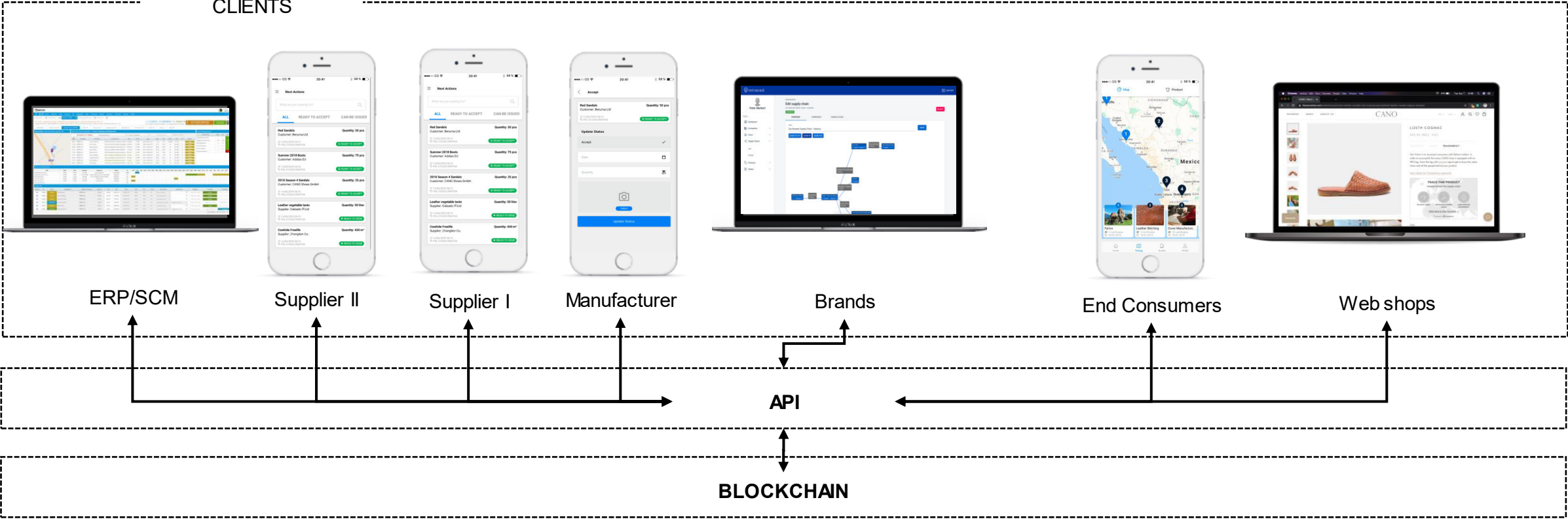


COST-EFFICIENT

The value add can be quantified and it is affordable for every fashion brand of any size. **You can start for free!**

INFRASTRUCTURE OVERVIEW

We knew from the beginning the requirements are to handle not only supply chain side, but also consumer side and analytics.



MICROSERVICES and AUTONOMOUS DATABASE

The perfect match?

MICROSERVICES

Single process for a small logical task.

Earlier times: Monolithic approach with one big code base with hundred of interdependencies.



PRO:

SCALABILITY

They scale as you add replicas of the service.

Perfect horizontal scaling.

Also perfect vertical scaling in Oracle Kubernetes Engine.



CON:

DEDICATED DBs

To split services and make the non dependent between each other, each service type has its own DB.

Why? DBs do not scale easily automatically.

This makes development massively stressful!



AUTONOMOUS DATABASE

One click deployed database without the worry of updates.



PRO:

SCALABILITY

Without the need of any maintenance, scalability comes with **one click** – or for the real lazy **even automatically** if chosen.



CON:

LESS CONTROL

Autonomous service means you have less control over things*. If your business model is handling DBs, it might not suit.

* This only applies to my understanding to Autonomous flavor of DB and not to self-hosted Oracle DB flavor.

MICROSERVICES and AUTONOMOUS DATABASE

MICROSERVICES

Single process for a small logical task.

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DEDICATED DBs

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Why? DBs do not scale easily automatically.

This makes development massively stressful!



THE PERFECT MATCH!

Microservices scale horizontally and vertically perfectly. They only need an automatic scalable DB.

Nothing fits better than an automatic scaling autonomous database!

AUTONOMOUS DATABASE

One click deployed database without the worry of updates.



PRO:

SCALABILITY

Without the need of any maintenance, scalability comes with **one click** – or for the real lazy **even automatically** if chosen.



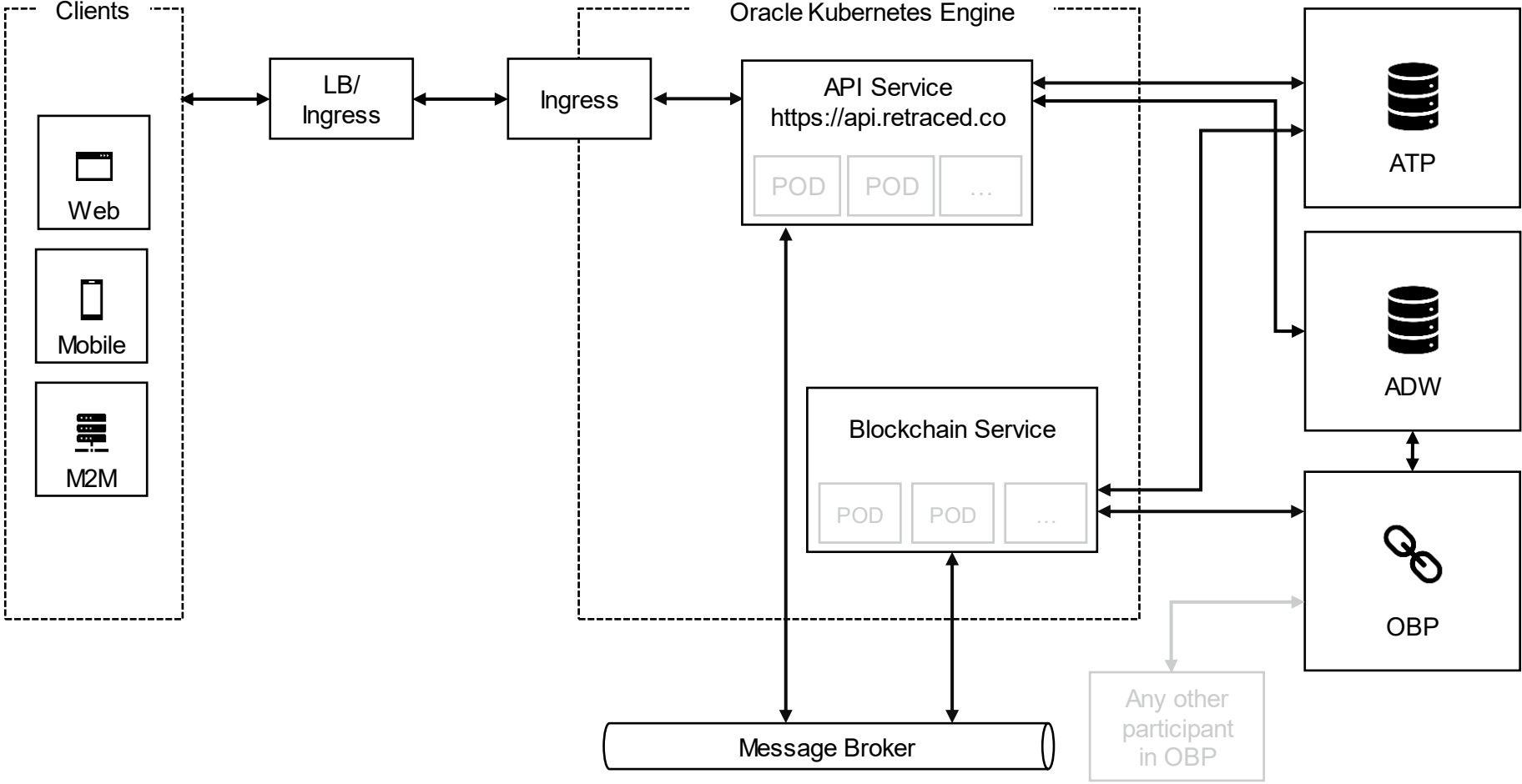
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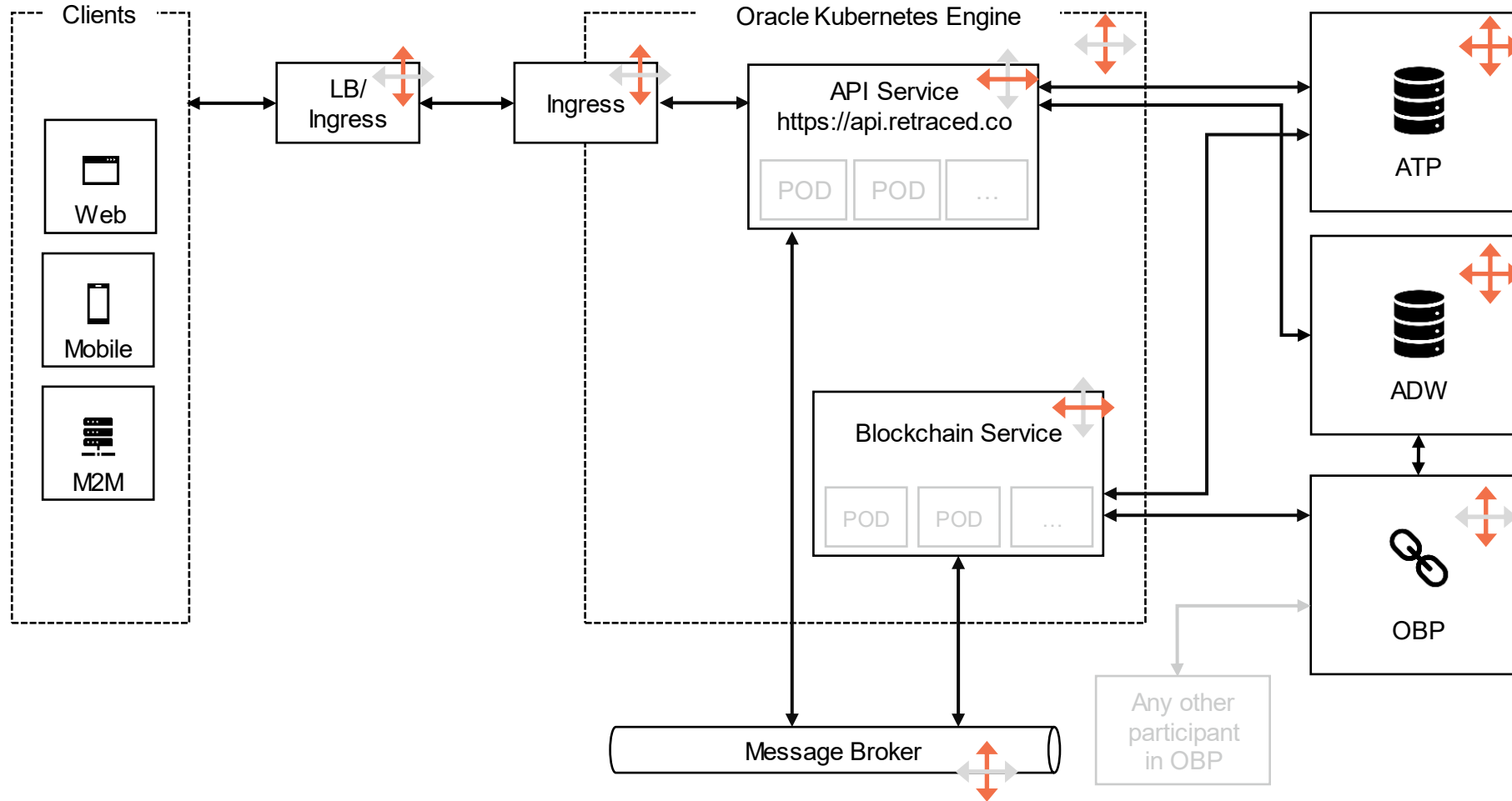
HOW DOES retraced LOOK UNDER THE HOOD?



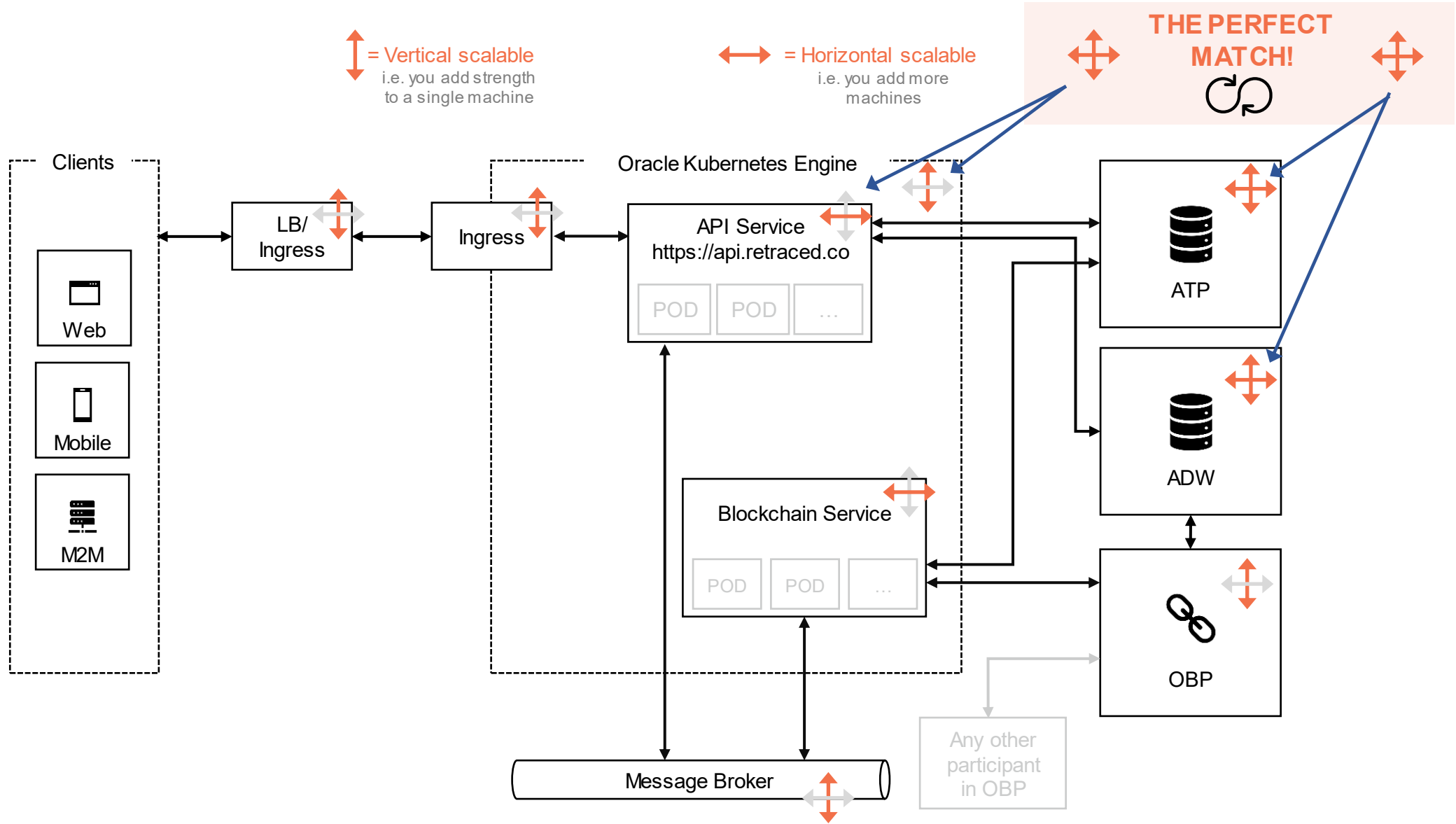
HOW DOES OUR ARCHITECTURE SCALE?

↑ = Vertical scalable
i.e. you add strength
to a single machine

↔ = Horizontal scalable
i.e. you add more
machines



SCALABILITY TO INFINITY!





PETER MERKERT

CTO & CO-FOUNDER

peter@retraced.co

<https://retraced.co>

**REAL TRACED ITEM
SCAN WITH YOUR PHONE CAMERA**



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APEX@MIGROS BANK

EMEA 23.6.2020

Bernd Granacher, Head Software Development
Markus Oswald, Deputy Software Development



MIGROS BANK Key Figures

Total assests

47

Billion CHF

Annual profit

231

Millions

Number of Customer
relationships

798'000

Employees

1362

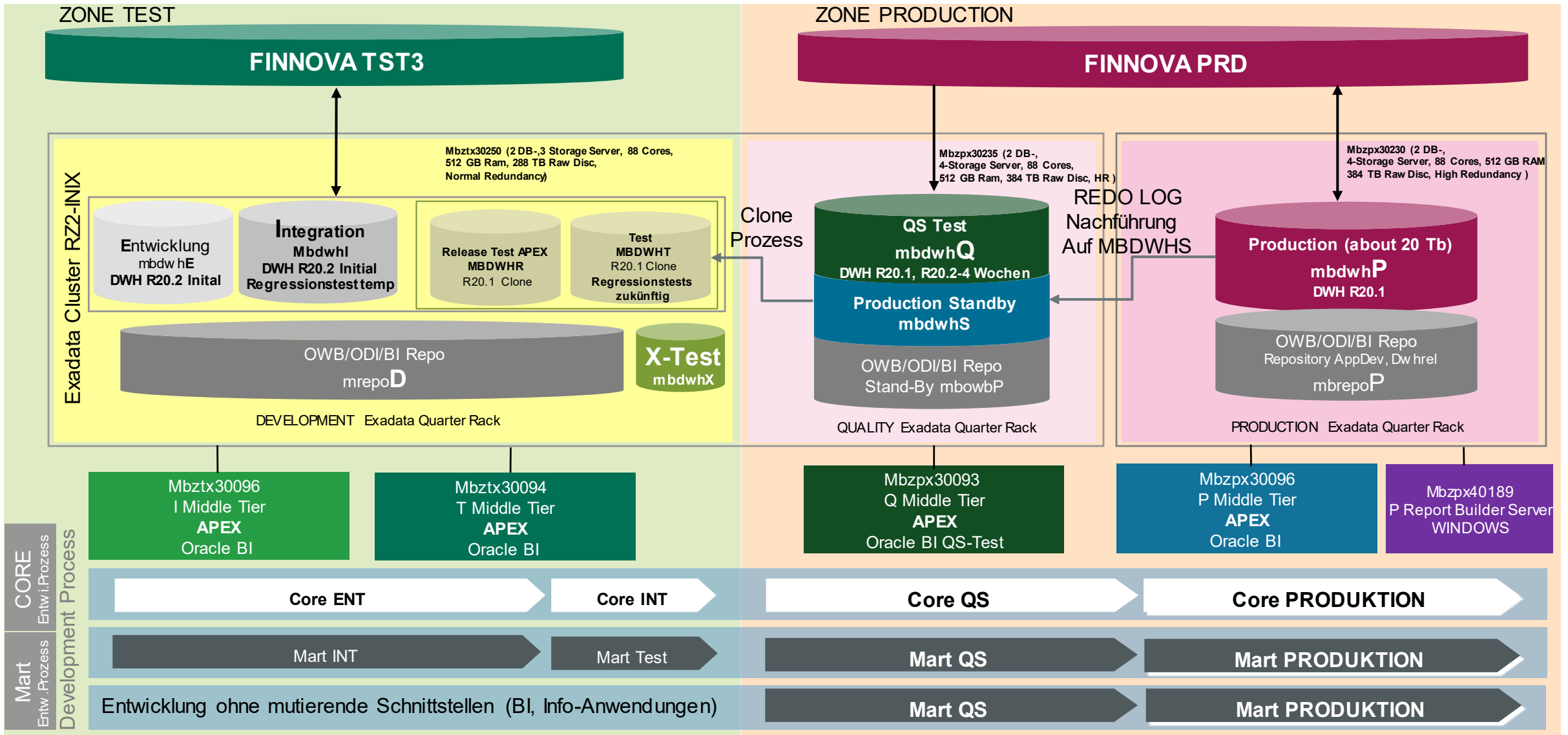
Branches

67

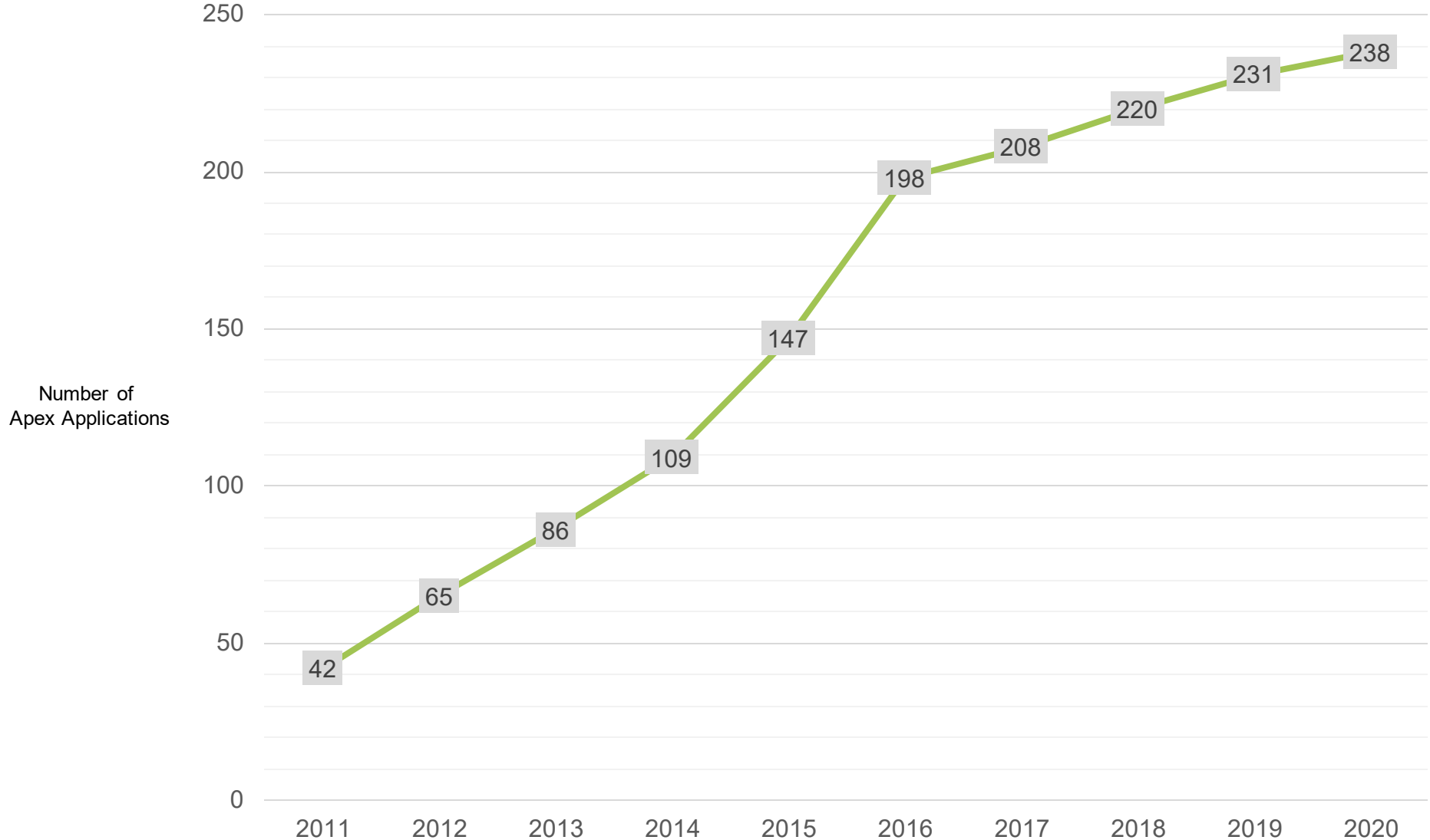
Rating Standard & Poor's

A

Infrastructure Exadata System X6 DWH-System



APEX@MIGROS BANK Success Story APEX 2011-2020



APEX@MIGROS BANK Entry Point «DWH-PORTAL»



DWH-Portal Granacher Bernd GRH

DWH > 9_DWH-Administration

Welcome: GRH [Logout](#)
 ->switch Layout<-
[deutsch](#) [français](#) [italiano](#)

SUCHE

- ☰ DWH
 - 1_Partner-Konto-Depot
 - 2_Finanzieren
 - 3_Anlegen
 - 4_Zahlen
 - 5_Diverses
 - 6_IPT
 - ☑ 7_CRM
 - Kampagnen-Management
 - 8_IAA
 - 9_DWH-Administration
 - 10_Human Resources
 - 11_DQM
 - 12_Vorsorge

APEX AM AD-Gruppenzuordnung	Beschreibung AM AD-Gruppenzuordnung	AM AD-Gruppenzuordnung
APEX AM Auftrag	Beschreibung AM Auftrag	AM Auftrag
APEX AM Autorisierungsmanagement	Beschreibung AM Autorisierungsmanagement	AM Autorisierungsmanagement
APEX AM Definition Empfängergruppen/Rollen	Beschreibung AM Definition Empfängergruppen/Rollen	AM Definition Empfängergruppen/Rollen
APEX Administration BI Benutzer	Beschreibung Administration BI Rechte	Administration BI Benutzer
APEX Applikationsadmin DWH-Portal	Beschreibung Applikationsverwaltung	Applikationsadmin DWH-Portal
APEX BK_Betreuer - Emailadressen	Beschreibung Erfassen der Emailadressen unpersonliche Kundenbetreuer	BK_Betreuer - Emailadressen
APEX Berechtigungsverwaltung Portal	Beschreibung Berechtigungsverwaltung	Berechtigungsverwaltung Portal
APEX CMTNT Delphi Codemapping	Beschreibung CMTNT Delphi Codemapping Auskunft	CMTNT Delphi Codemapping
APEX CMTNT Delphi Spezial-Codemapping	Beschreibung CMTNT Delphi Spezial-Codemapping Auskunft	CMTNT Delphi Spezial-Codemapping
APEX CSV-Upload	Beschreibung CSV-Upload allgemein	CSV-Upload
APEX Checkjobs	Beschreibung Überwachung Datenbank-Jobverarbeitung	Checkjobs
APEX DHW Load	Beschreibung DWH Martload Steuerung	DHW Load
APEX Datenzugriffsbeschränkung Kundenauskunft	Beschreibung Administration Datenzugriffsbeschränkung Kundenauskunft	Datenzugriffsbeschränkung Kundenauskunft
APEX Domainwerte DWHAPP	Beschreibung Bearbeiten Domainwerte DWHAPP	Domainwerte DWHAPP
APEX NL/Region/Marktgebiet	Beschreibung Bearbeiten Niederlassung, Region, Marktgebiet	NL/Region/Marktgebiet
APEX SegmentHauptsegment	Beschreibung Zuordnung Segment - Hauptsegment	SegmentHauptsegment
APEX Stammdatenverwaltung	Beschreibung SV - Stammdatenverwaltung	Stammdatenverwaltung
APEX Vorhabensverwaltung LOITSD	Beschreibung Vorhabens- und Komponentenverwaltung	Vorhabensverwaltung LOITSD
APEX XML 2 Table	Beschreibung XML 2 Table	XML 2 Table

APEX@MIGROS BANK Example APP «DWH_LOAD(2)»

https://dwhp-portal.migrosbank.ch/apex/mbdwhp/f?p=601:1:14085884598965::NO::P1_ID:148

DWH Martload

Datei Bearbeiten Ansicht Favoriten Extras ?

DWH_LOAD

Suche Go Reset Neue Einträge kopieren

Inaktive Einträge sind rot gekennzeichnet
Gesuchte Einträge sind gelb gekennzeichnet
Ausgewählte Einträge sind blau gekennzeichnet

DWH_LOAD

- PRE_INIT
 - DWHADMIN_USER
 - KD_USER_MB
 - PR_AKT_DZ
 - AM_BETR
 - DS_DOMAENENWERT_MB
 - KD_KUNDE2KUNDE_MV
 - KD_BRIEFANREDE
 - DS_AUFTRAGSHERKUNFT_NOTIZ
 - DS_AUFTRAGSHERKUNFT_PENDENZ
 - KD_PENDENZART
 - NGMID_READONLYVT_T
 - RISKREPORT WINKREDIT
 - STATISTIK FI_KONTO FI_KUNDE
 - FI_KURS_T
 - KD_ZUSATZFELD
 - KD_GESCHLECHT
 - KD_ADRESSE_MB
 - KD_KUNDE_KONTRAKT_MV
 - KD_EADRESSE_KD_MB
 - HR_TEILBEREICH_ADRESSE_MB
 - PR_TEILBEREICH_ADRESSE
 - DWHALLG_APEX_PORTAL_MV
 - KD_ZAHLUNGSRGL
 - KD_DOKGRP_ARBGEB
 - PM_PMSSTRUKTURBAUM_MV
 - DWHAPP_APEX_PORTAL_MV
 - SEGMENTLEITER
 - INIT_FI
 - TRUNCATE VORVERARBEITUNG
 - INIT_FI_KD_EINNAHMEN
 - INIT_FI_KD2KD
 - INIT_FI_SPERRCODE31
 - INIT_FI_SALDO

Bearbeiten FI Martload

Abbruch Löschen Speichern Neu

* Bereich Pre-Initialverarbeitung

Master-Verarbeitung

Verarbeitungstyp PL/SQL

* Code FI_KURS_T

Für die Unterscheidung der Umgebungen kann die Variable v_db (I,Q,P,T) verwendet werden.
Bei Verarbeitungen mit Nachfolgeprozessen sollten Fehler nicht über eine Exception abgefangen werden,
um das Setzen des Fehlerstatus nicht zu unterbinden.

PL/SQL Code

```
DELETE FROM fi_kurs_t;  
  
INSERT INTO fi_kurs_t  
(SELECT FI_WRGLNR,  
NAME FI_WRGLNRNAME,  
CHANGE_BWRG_SPEZ KURS,  
CHANGE_DAT  
FROM f2datp0_al_change_pms@finnova.migrosbank.ch a,  
dwhallg.ds_waehrung_text_v b  
WHERE change_dat || wrg_lnr IN  
( SELECT MAX (change_dat) || wrg_lnr  
FROM f2datp0_al_change_pms@finnova.migrosbank.ch  
GROUP BY wrg_lnr)  
AND a.wrg_lnr = b.fi_wrglnr);
```

Beschreibung

Verantwortlich

Ausführung

aktiv

* Visum

* Datum

täglich
täglich nach PMS
Monatsverarbeitung
KUW
Monatsverarbeitung oder KUW
täglich, weder Monatsverarbeitung noch KUW
Monatsverarbeitung mit KRL

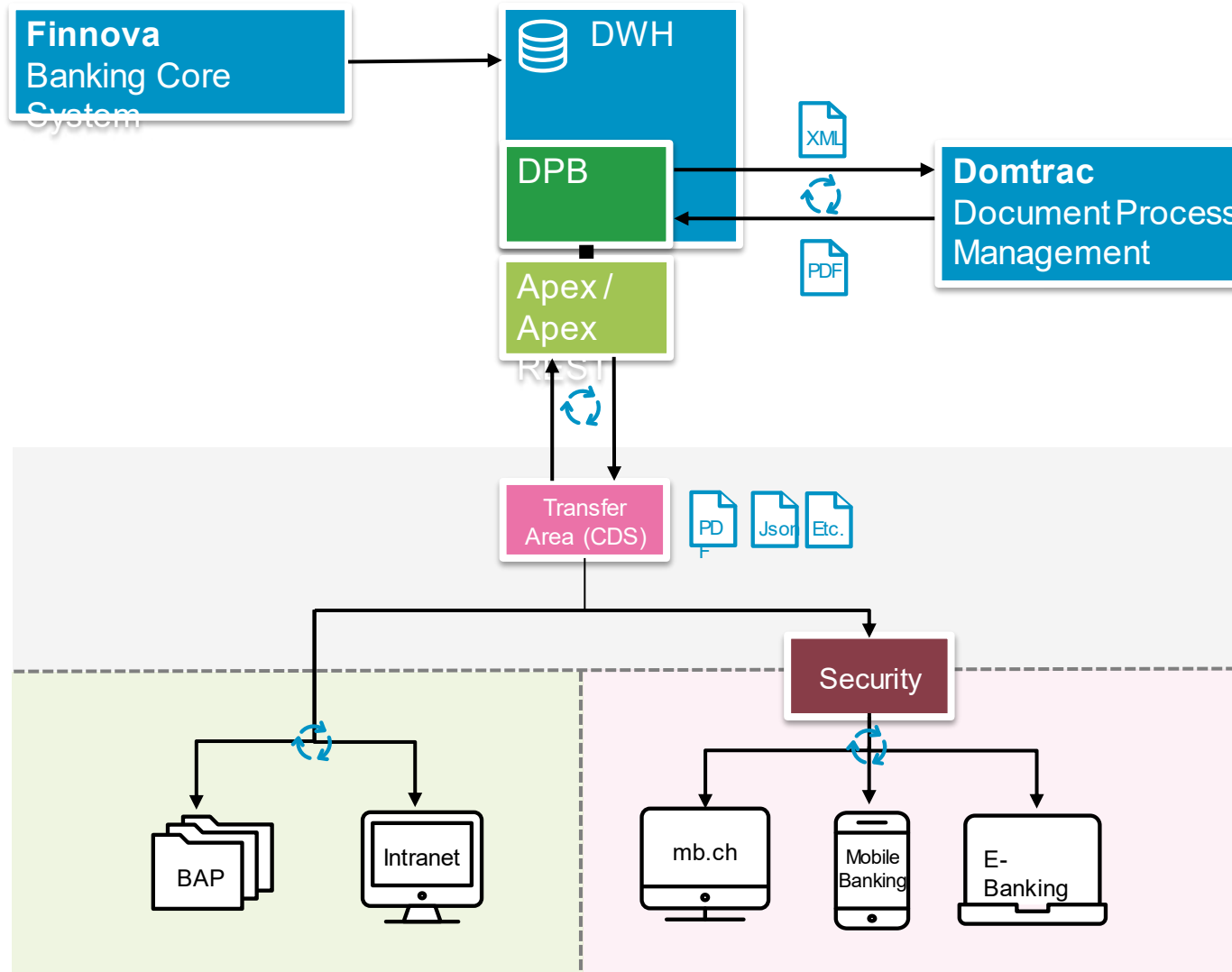
Data Management DWH_LOAD

Very simple management of the processing operations

Very fast implementation in case of changes

Example of a daily processing of a weekly step to a weekly processing

APEX@MIGROS BANK Overview « Digital Price Brochure DPB »



Key figures DPB:

Quantity:

Products	162
Services	339
Offer	4'600
Customer target groups	31
Documents	147
Document groups	14
Requests per day via APEX ORDS	10'000
Generated .PDF documents per day via APEX ORDS	4'500

APEX@MIGROS BANK APEX Example APP « Digital Price Brochure DPB»

MIGROSBANK

Digitale Preisbroschüre **PRODUKTION**

Welcome: VIZ User Manual (PDF) Logout

- Home
- Release
- Dienstleistungen
- Zielgruppen
- Sonderkonditionen
- Vergünstigungen
- Bezeichnungen und Freitexte
- Dokumente
- Daten Ausgabesteuerung
- Workflow
- Web Service
- Admin

Dienstleistungen - Angebote

Sprache: Deutsch

Release (Gültigkeit): 01.06.2020 - Aktiv

Angebote anzeigen

Produkte

- Prepaidkarte CHF (Viseca, kein Neuverkauf)
- Prepaidkarte EUR (Viseca, kein Neuverkauf)
- Prepaidkarte USD (Viseca, kein Neuverkauf)
- Kreditkarte Silber CHF (Viseca)
- Kreditkarte Gold CHF (Viseca)
- Kreditkarte Gold EUR (Viseca)
- Kreditkarte Gold USD (Viseca)
- Kreditkarte Basic CHF (Viseca)
- Business Card Gold CHF (Viseca)
- Business Card Gold EUR (Viseca)
- Business Card Gold USD (Viseca)
- Corporate Card Silber CHF (Viseca)

- Privatkonto
- Premiumkonto
- Privatkonto EUR
- M-Privatkonto
- Privatkonto MB
- Kontokarte M-Card
- Business Card Silber CHF (Viseca)**

OP-ID: 695664

Konten

	Default	Zahlen Privatkonto	Premiumkonto	Privatkonto EUR	M-Privatkonto	Privatkonto MB
Eignung						
Konto Eignung	—	Das Lohn- und Zahlungskonto	Für Privatkunden mit grossem Geschäftsvolumen	Das Lohn- und Zahlungskonto	Das Lohn- und Zahlungskonto	Das Lohn- und Zahlungskonto
Zinssatz						
Zinssatz Haben	—	0,000%	0,000%	0,000%	0,500%	1,000%
Zinssatz Soll	—	8,000%	8,000%	10,000%	8,000%	8,000%
Kontoführung						
Kontoeröffnung und -saldierung	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	
Kontoeröffnung und -saldierung	kostenlos	—	kostenlos			
Kontoführung Gesamlguthaben ≥ CHF 7500, monatlich	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Kontoführung Gesamlguthaben < CHF 7500, monatlich	kostenlos	CHF 3	kostenlos	CHF 3	kostenlos	kostenlos
Kontoabschluss jährlich, mit Kreditlimite vierteljährlich	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Bewegungen						
Buchung Eingang via Zahlungsverkehr	kostenlos	CHF 0.20	kostenlos	CHF 0.20	Lohneingang gratis, sonst CHF 0.20	kostenlos
Buchung Eingang am Schalter	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Buchung Warenbezug, Bargeldbezug	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Buchung übrige Ausgänge	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Rückzug bis	unbegrenzt	CHF 50 000 monatlich	CHF 50 000 monatlich	EUR 30 000 monatlich	CHF 50 000 monatlich	unbegrenzt
Rückzug darüber, ohne Kündigung	0,200%	0,200%	0,200%	0,200%	0,200%	
Rückzug darüber, mit Kündigung	3 Monate	3 Monate	3 Monate	3 Monate	3 Monate	
Dokumente						
Kontoauszug online	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Kontoauszug per Post, je Auszug	CHF 1.50	CHF 1.50	kostenlos	CHF 1.50	CHF 1.50	CHF 1.50
Kontoauszug per Post, Premium-/Firmenkunden	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Kontoauszug täglich per Post, je Auszug	CHF 1	CHF 1	CHF 1	CHF 1	CHF 1	kostenlos
Buchungsanzeige standardmässig ohne	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Buchungsanzeige online	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos
Buchungsanzeige per Post, je Anzeige	CHF 1	CHF 1	kostenlos	CHF 1	CHF 1	CHF 1
Buchungsanzeige per Post, Premium-/Firmenkunden	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos	kostenlos

Basis Functions DPB

- Data maintenance (Products, Offers, Special conditions)
- Release management with integrated workflow
- Monitoring Web Service
- Admin

APEX@MIGROS BANK Example Document

MIGROSBANK Digitale Preisbroschüre Welcome: VIZ deutsch français italiano User Manual (PDF) Logout

Dokument OP-ID: 693121

Konten Erstellt am 04.06.2020

	Zahlen	Sparen	Junge Kunden
	Privatkonto	Anlagesparkonto	Jugendsparkonto
Eignung	Das Lohn- und Zahlungskonto	Mit Vorzugszins langfristig sicher sparen	Für eigene Kinder sparen
Zinssatz	0,000%	0,030% ²	0,600% ³
Kontoführung			
Kontoeröffnung und -saldierung	kostenlos	kostenlos	kostenlos
Kontoführung Gesamtguthaben ≥ CHF 7500, monatlich	kostenlos	kostenlos	kostenlos
Kontoführung Gesamtguthaben < CHF 7500, monatlich	CHF 3	kostenlos	kostenlos
Kontoabschluss jährlich	—	kostenlos	kostenlos
Kontoabschluss jährlich, mit Kreditlimite vierteljährlich	kostenlos	—	—
Bewegungen			
Buchung Eingang via Zahlungsverkehr	CHF 0.20	kostenlos	kostenlos
Buchung Eingang am Schalter ¹	kostenlos	kostenlos	kostenlos
Buchung Warenbezug, Bargeldbezug ¹	kostenlos	ab 3. Bezug p.a.: CHF 5	ab 13. Bezug p.a.: CHF 5
Buchung übrige Ausgänge	kostenlos	kostenlos	kostenlos
Rückzug bis	CHF 50 000 monatlich	CHF 20 000 jährlich	CHF 10 000 monatlich
Rückzug darüber, ohne Kündigung	0,200%	0,200%	0,200%
Rückzug darüber, mit Kündigung	3 Monate	3 Monate	3 Monate
Dokumente			
Kontoauszug online	kostenlos	kostenlos	kostenlos
Kontoauszug per Post, je Auszug	CHF 1.50	CHF 1.50	CHF 1.50
Buchungsanzeige online	kostenlos	kostenlos	kostenlos
Buchungsanzeige per Post, je Anzeige	CHF 1	CHF 1	CHF 1
Verfügbare Dienstleistungen			
E-Banking, Android Widget	ja	ja	ja
Als Verbindungskonto zu Depot	ja	ja	ab 18

thank you for your attention

bernd.granacher@migrosbank.ch
markus.oschwald@migrosbank.ch

ORACLE

Oracle Global Leaders Program

June 24 - 16.15 CET

Oracle Global Leaders Summer Meeting EMEA 2020

Oracle Database Development Panel

InvestmentDataServices



Jörg Otto
IT Architect
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Peter Merkert
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MIGROSBANK



Markus Oschwald
Senior Software Analyst
Migrosbank - Switzerland

SUMIT
get value from data



Dr. Holger Friedrich
CEO
SumIT - Switzerland



**LARS — Replacing Lotus Notes Apps using
Autonomous DB & Application Express**

Dr.-Ing. Holger Friedrich

- Consulting and implementation services
- Experts for
 - Data Warehousing,
 - Business Intelligence,
 - Advanced Analytics
 - Big Data
- Focussed on Oracle on-premises and Cloud
- Oracle specialisations for BI, Database, DWH, & Data Integration
- Our motto: Get Value From Data
- Web site: www.sumit.ch (in German)




Specialized
Oracle Business Intelligence
Foundation



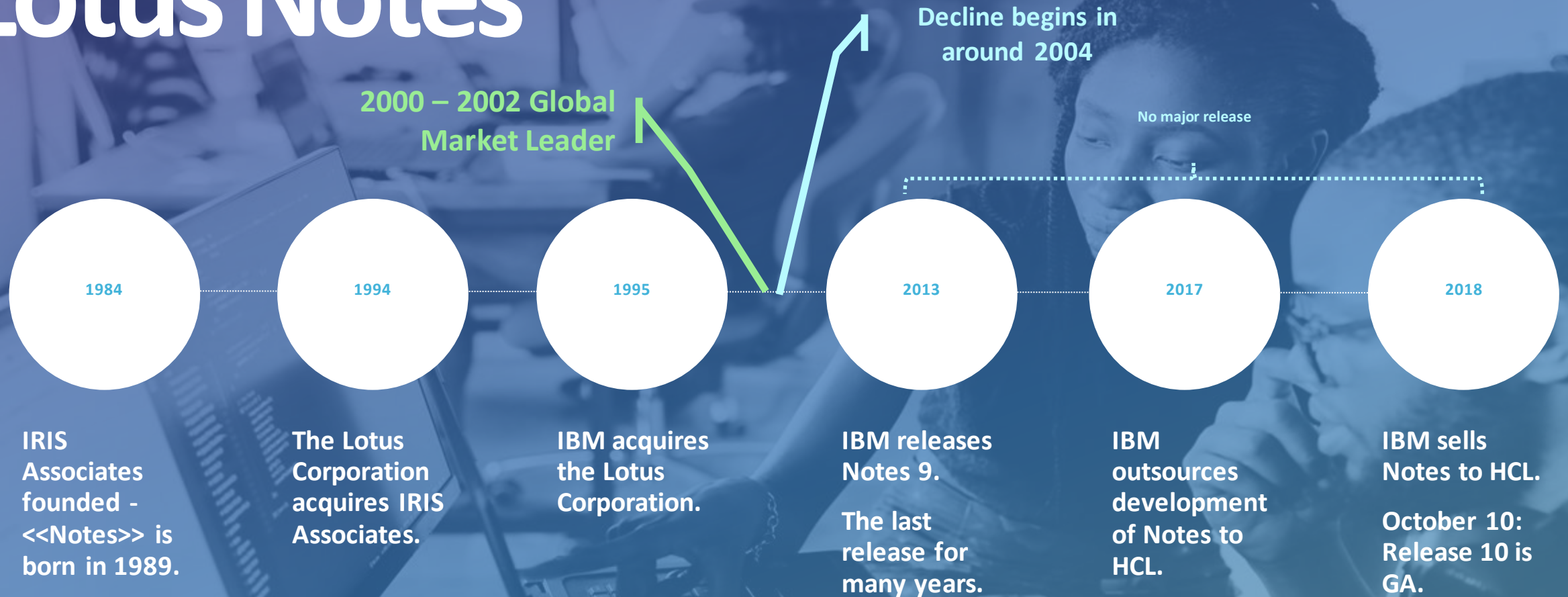
Specialized
Data Warehousing

- Computer Science diploma of Karlsruhe Institute of Technology (KIT)
- Ph.D. in Robotics and Machine Learning
- More than 20 years experience with Oracle technology
- Expert for
 - Data Integration
 - Data Warehousing / Big Data,
 - Advanced Analytics and
 - Business Intelligence
- CEO of sumIT AG



 Oracle ACE for Data Warehousing / Analytics / Business Intelligence

Brief History of Lotus Notes



- (Almost) no infrastructure installation
- Web based development
- Cost efficient
- Agile
- Low maintenance
- Full feature set
 - Procedural logic
 - REST API (in/out)
 - Graphical customisable reports with search
 - Multi-lingual support
 - ...

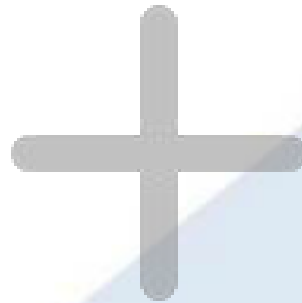


- Low cost
- Simplicity
- Agility
- Scalability
- Performance
- Features
- Access



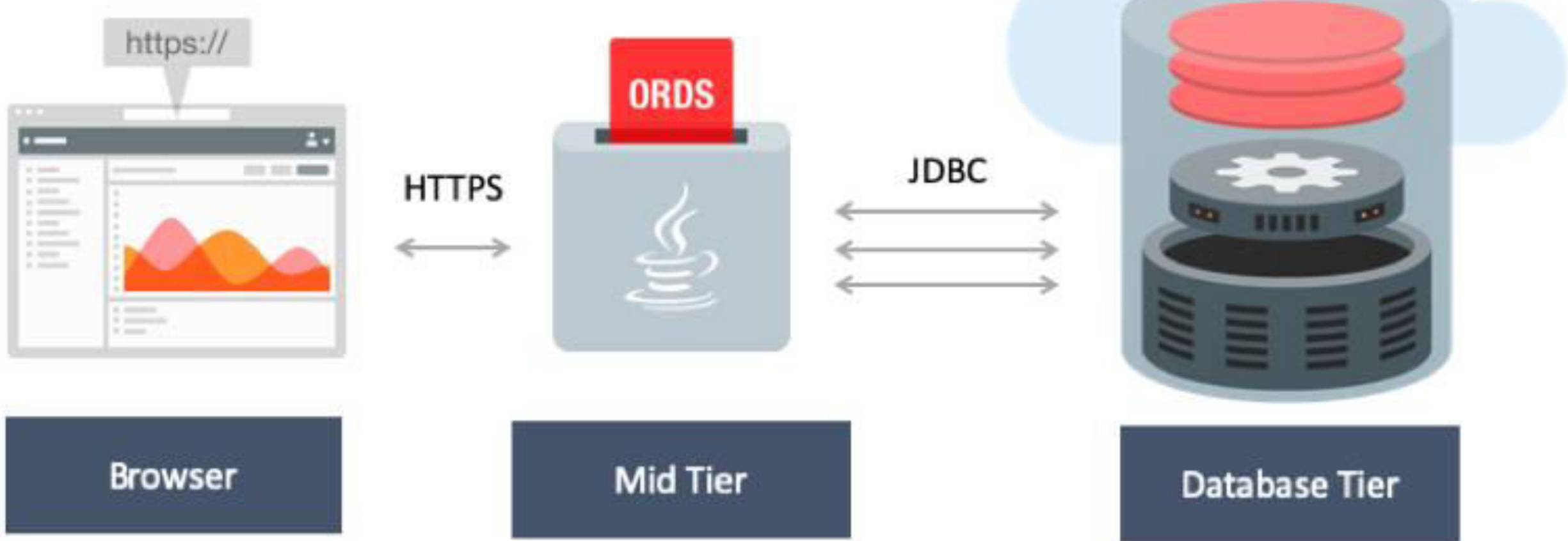


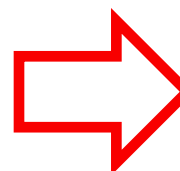
Autonomous Database



Application Express

Autonomous Database



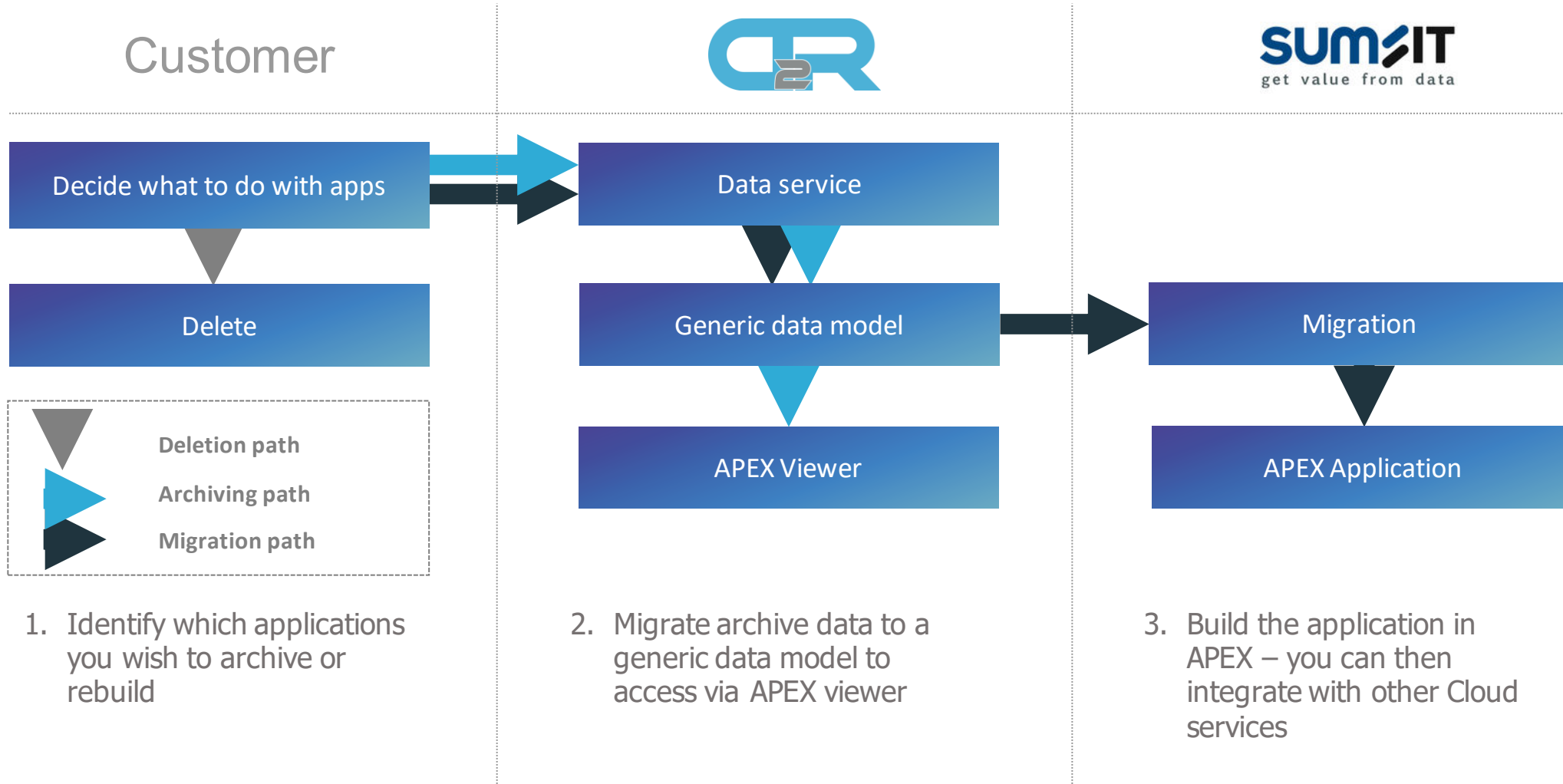
 ADB provides complete no-maintenance infrastructure for LARS

The screenshot displays the Oracle APEX Page Designer interface. A central 'Code Editor - PL/SQL Code' window is open, showing the following code:

```
1 declare
2   l_time_zone varchar2(100);
3 begin
4   -- Get TIME_ZONE for this LNV_VIEWER-Installation
5   l_time_zone := LNV_VIEWER.LNV_CONFIG_PKG.config_param_get('TIME_ZONE', 'APPLICATION');
6
7   -- Set default TIME_ZONE, if not defined
8   if l_time_zone = 'NO_DATA_FOUND' then
9     l_time_zone := 'Europe/Berlin';
10  end if;
11
12  APEX_UTIL.SET_SESSION_TIME_ZONE(P_TIME_ZONE => l_time_zone);
13 end;
```

The code editor window includes a toolbar with icons for undo, redo, search, and other editing functions. The background shows the APEX Page Designer workspace with a left-hand navigation pane and a bottom toolbar containing various report and widget options like Breadcrumb, Calendar, Chart, and Classic Report.

The archiving/migration process





Release Management

Dokument

Anhänge

Zugehörige Dokumente

121.1.2.1 - Rec
calendarEntryU

Text

Richtext

PDF - View



Diese

Richtext

PDF - View	Richtext	Text	Download	Browser
	Diese Methode ändert einen Kalendereintrag er hat die Parameter:			

row(s) 1 - 1 of 1

PDF - View: Richtext

Diese Methode ändert einen Kalendereintrag er hat die Parameter:

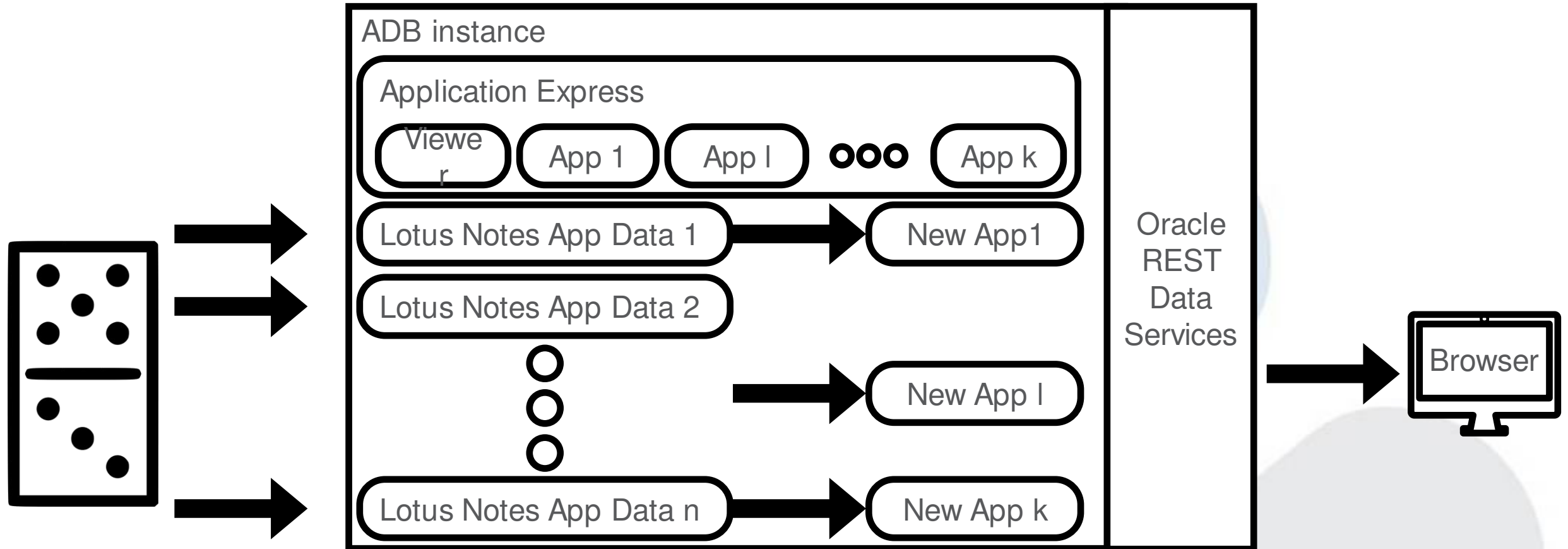
Terminobjekt			
External-TerminID	InesID	"001"	
Notes-TerminID	Unid	"	
Notes-Konto	Owner	"Peter Zeder/PeZe"	
Beginn	StartDate	"07.05.2019 15:05:00"	
Ende	EndDate	"07.05.2019 17:05:00"	
Betreff	Subject	"Betreff"	
Beschreibung	Description	"Beschreibung"	
Privat	IsPrivate	"-1"	
Herkunft	Origin	"E"	
Ort	Location	"External"	
Zeitzone	TimeZone	"Z=-1\$DO=1\$DL=3 -1 1 10 -1 1\$ZX=132\$ZN=W. Europe"	
Kategorie	Category	"Kategorie 1~Kategorie 2"	

Parent Dokument

e Dokumente

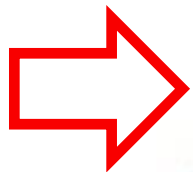


Target Architecture in ADB

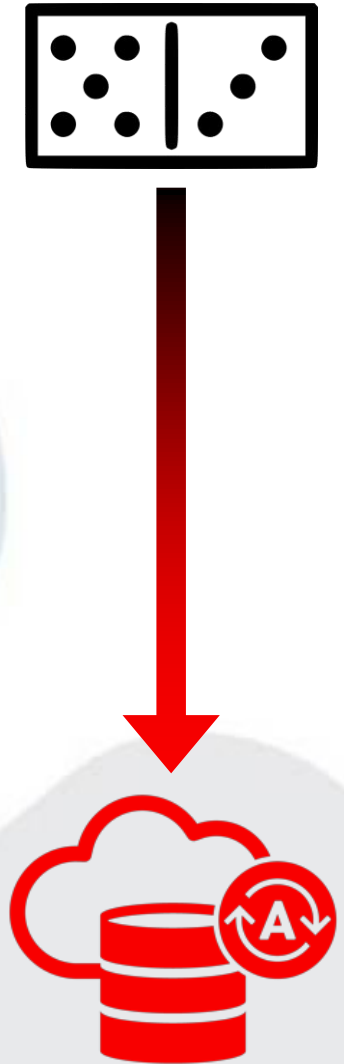


Why is APEX/ADB Perfect For This

- No up-front investment in infrastructure
- No installation or maintenance effort, including
 - Application Express
 - REST interface
- Easily manageable by non-expert customers
- Data migration into ADB via standard SQL/tools
- Many Notes applications can be migrated into one ADB instance
- Supreme performance
- Great for low-code application development



Contact us for more information/demo: LARS@sumit.ch



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MIGROSBANK



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Migrosbank - Switzerland

SUMIT
get value from data



Dr. Holger Friedrich
CEO
SumIT - Switzerland