Money costs much, human life is highly valuable, but the time is expensive most.

Field Marshal Alexander Suvorov

Gridfore

reactive intelligent platform



20%

annual growth of FastData* market accoring to Gartner and other higly-reputed business consulters

* the term for real-time analytics on BigData

More and more companies see the need for digital transformation of business gaining qualitative improvement of control and decision-making mechanisms to achieve strategic leadership in a competitive market of their industry

Bringing new ideas to production is hindered by the high cost of solving real-time tasks in operational processes, anti-fraud, scoring and marketing implemented on the traditional technology stack



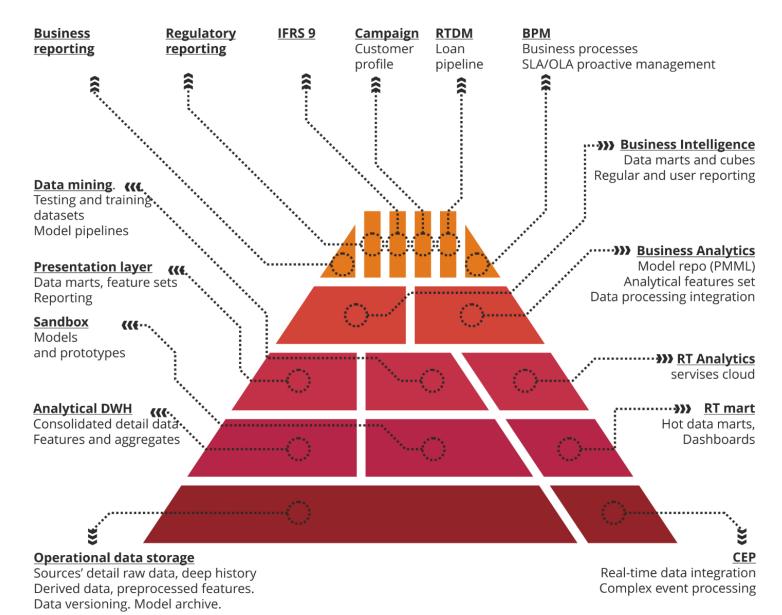
Corporate BIGDATA TOMB



intelligent

platform



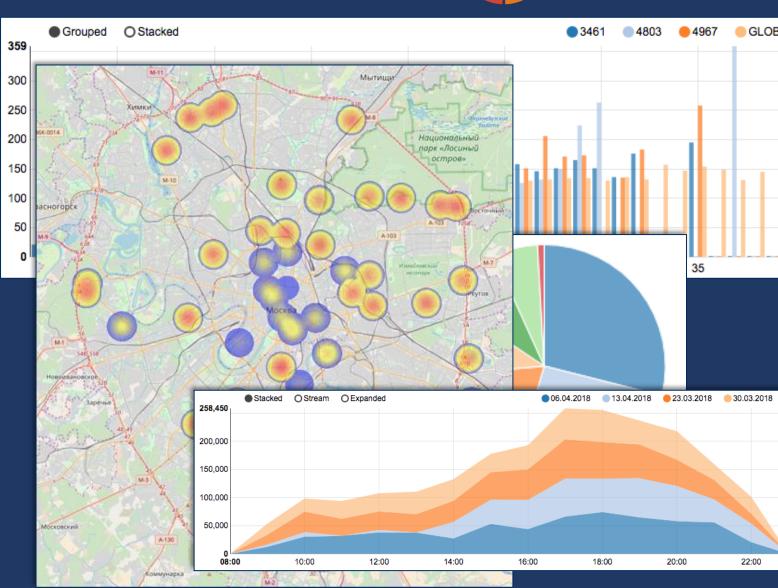


Real-time process monitoring



Monitoring of operational and business processes with proactive real-time trend control.

- Complex analytical processing on most actual data in real time.
- Support for common business intelligence and visualization tools.



Integration of industrial sensors and commercial equipment



%, comm=12288MB] , comm=230MB]

idle=15, qSize=0]

idle=16, qSize=0]

datagrid%] INFO

datagrid%] INFO o.

EndpointHandlerMa EndpointHandlerMa

5471500098270 23 ХЛЕБОЫ ФИНН КРИСЛ 2 * 107.99 =215.98.Б 4000417211002 ^-- Node [id=9945f9a6, name=datagrid, uptime=08:27:16

Monitoring of cash register and ATM logs:

- Easily integrates into existing infrastructure
- Does not require software modification
- Integration of 10,000+ devices in real time
- Centralized monitoring of the enterprise

```
EndpointHandlerMa
                                                              o.s.j.e.a.AnnotationMBeanExport
                                  11:06:00.402 [main] INFO
  =129.99.5
                                                              o.s.j.e.a.AnnotationMBeanExport
                                  11:06:00.408 [main] INFO
                                  11:06:00.411
                                                              o.s.j.e.a.AnnotationMBeanExport
  =339.48..5
                                                              o.s.j.e.a.AnnotationMBeanExport
                                  11:06:00.425
                                                [main] INFO
≡6719.17
                                  11:06:00.431
                                                              o.s.j.e.a.AnnotationMBeanExport
                                  11:06:00.433
                                                [main] INFO
                                                              o.s.b.a.e.jmx.EndpointMBeanExpo
   ≡568.31
   ≡272.14
                                  11:06:00.442
                                                              o.s.c.s.DefaultLifecycleProcess
29.05.18 14:49
                                                [main] INFO
                                                [main] INFO
                                                              o.s.b.a.e.jmx.EndpointMBeanExpo
                                  19:20:57.711 [http-nio-0.0.0.0-8080-exec-10] INFO c.g.gr
                                  19:20:57.715 [http-nio-0.0.0.0-8080-exec-10] INFO c.g.gr
```

Gridfore is a complex processing of big data in real-time for large retail networks, banks and telecom operators

Application factory for business process management, anti-fraud cases, dynamic segmentation and real-time marketing campaigns

Active Data Lake for mining on the most recent data



COMPLEX EVENT PROCESSING REAL-TIME DATA INTEGRATION

Gridfore reactive intelligent platform

AI DECISION MAKING

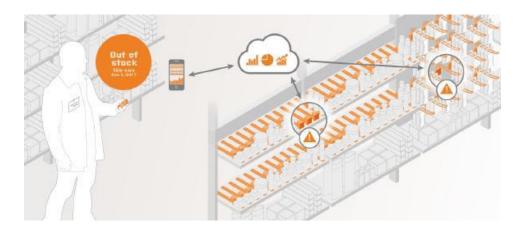
- Detecting in real-time the valuable business events out of the raw data streams
- Extracting simple business events ("exceeding the threshold value") and complex ones ("customer segment change")
- Analyzing the impact of the events
- Firing business events to external subscribers

Works with:

- Patterns (the enven must fall under a certain "pattern")
- Models (predicted event occured)
- Relationships (cause-effect relationships)

Example: events that affect the trade turnover

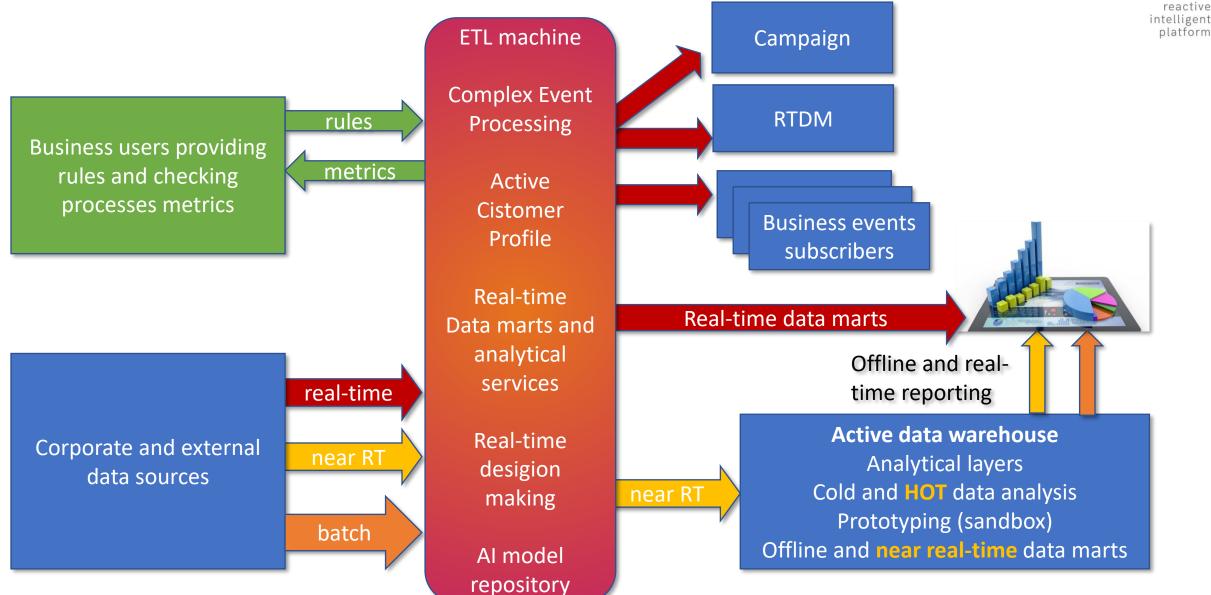
- Outage of sales on the specific article
- Slowing down the efficiency of a cashier or a commercial equipment
- Failure of the commercial equimpment or external services





Designed to collaborate and interact

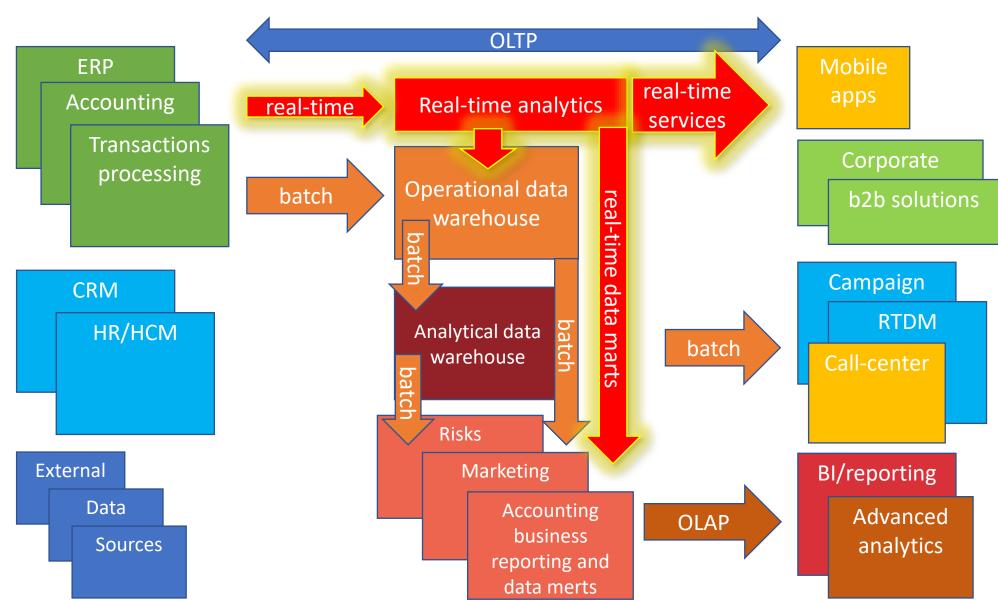






No revolutions. Easily fits to existing infrastructure





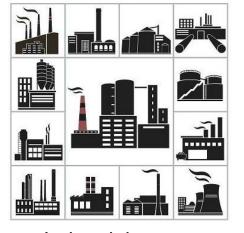
real-time solutions

for industrials, retail and banking



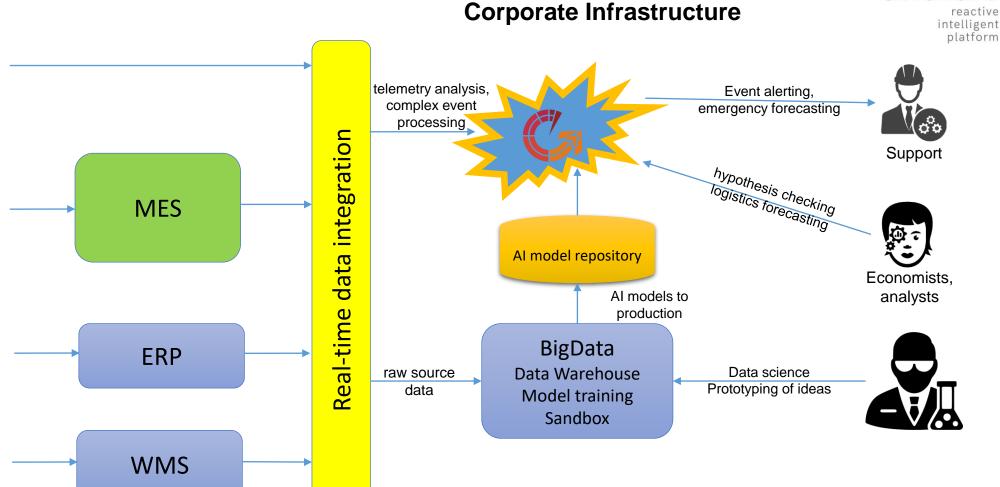
Industrial Processes Monitoring





Industrial sensors, real-time telemetry



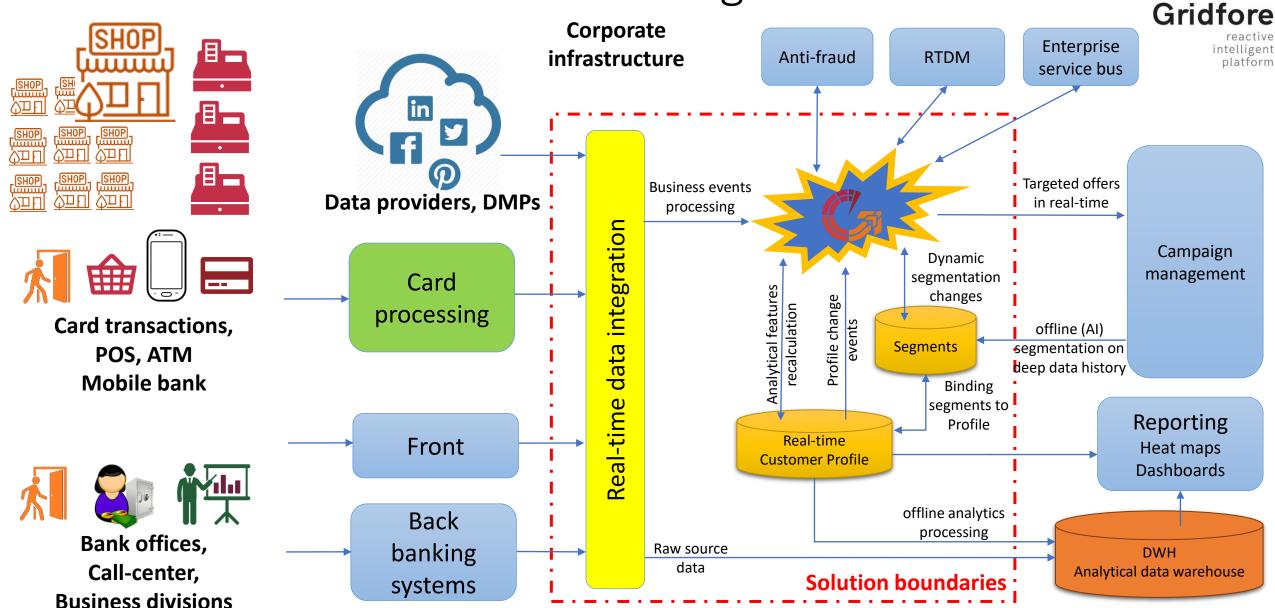


Cloud computing services based on trained mathematical models for the dynamic calculation and prediction of emergency situations in real time.



Real-time services for banking



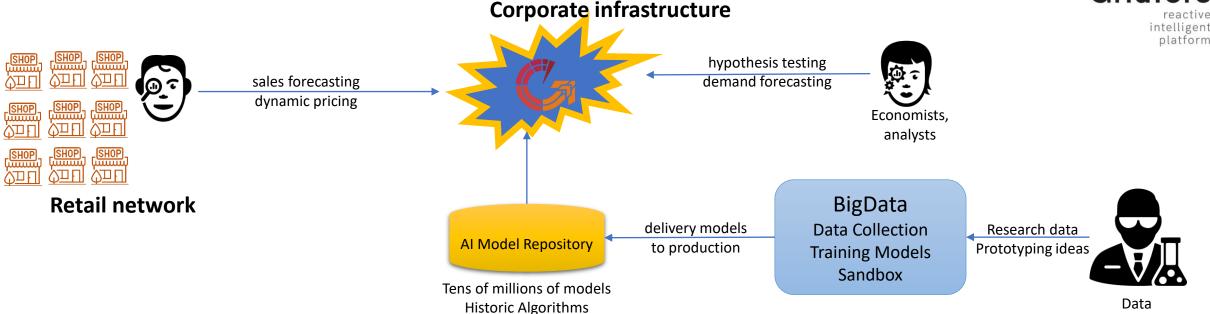




Real-time cost/demand forecasting



Scientists



Compute service cloud based on trained mathematical models for dynamic calculation and forecasting of demand and pricing policies.

- Hundreds of business users in the central office and branches;
- Requests for revaluation of goods from thousands stores of network;
- Tens of millions of trained models available online.

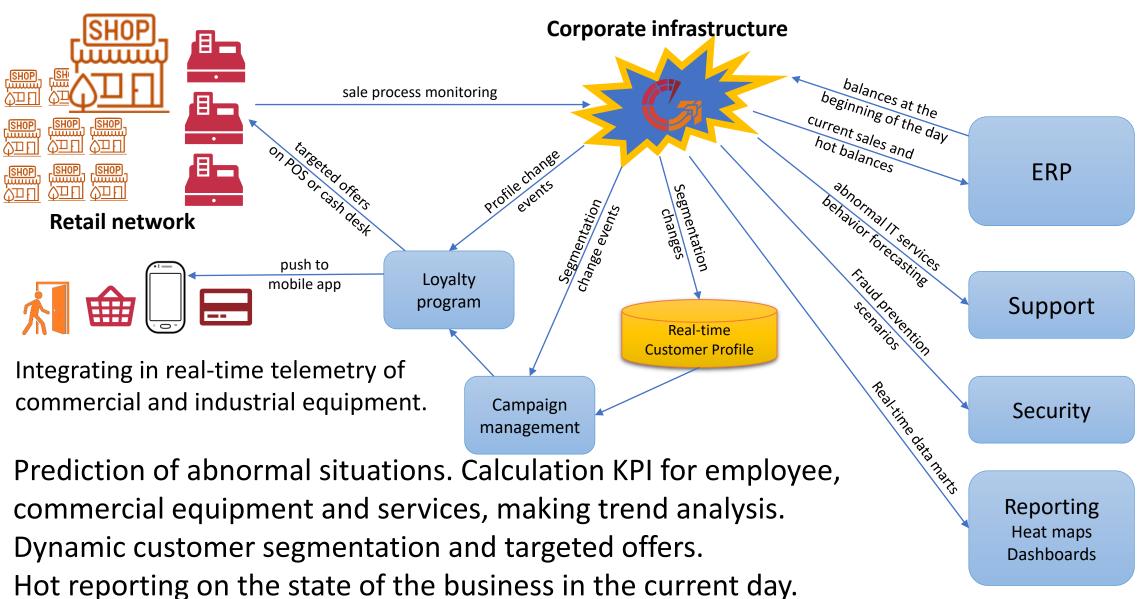
Infrastructure for the rapid delivery to production of trained AI models, with algorithm versioning and real-time availability for business use.



Operational monitoring of retail network



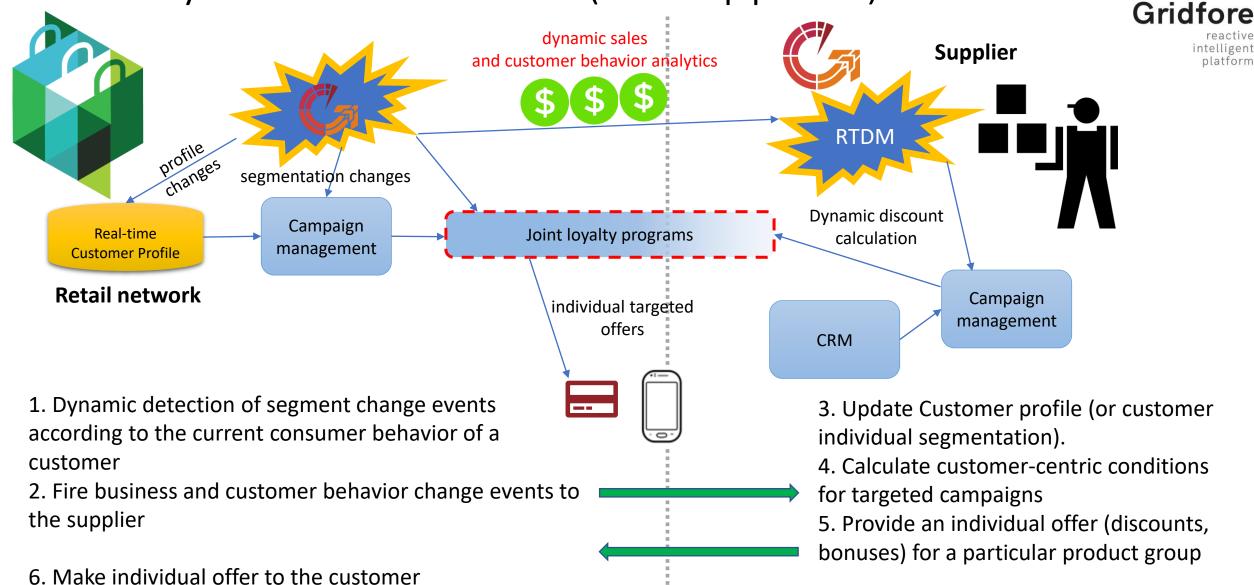
intelligent





Analytics Monetization (for suppliers)





TECHNOLOGIES

Gridfore

Computing power of Hi-End equipment



Powerful in-memory computing



In-memory data storage for faster processing



Scaling without platform stopping processes

COMPONENTS

Simplification and acceleration of the application development process, eliminating the need for additional solutions and tools



A unified mechanism for orchestrating all computation processes and data flows within the platform



An simple language for application developing - either for ETL, DQ, or ML tasks



Full stack ETLmachine for data extraction, transformation and enrichment



Triggering complex business events using smart logic on highload flows of raw data



Data quality: from simple row-based rules to complex business rules and trend analysis



Using trained ML models in real time as scoring services. Supports PMML.



Competitors



platform

- Out-of-the-box: all needed technological components combined in one product
- Cost effective: simple implementation, no complex coding
- **Risk free**: easily implemented in your infrastructure, no revolutions needed

Функция	C	ORACLE	IBM	S sas	Informatica	HORTONWORKS	Microsoft
Data processing (ETL)	✓	Oracle Data Integrator	DataStage	SAS DI	PowerCenter	Apache NiFi	SQL Server Integration Services
Complex event processing (CEP)	✓	Oracle Event Processing	IBM Streams	SAS ESP	RulePoint	Apache Flink	Azure Stream Analytics
In-memory database	✓	Coherence Grid Edition	WebSphere eXtreme Scale	X	X	Apache Ignite	Azure SQL Database
Real-time decision making (RTDM)	✓	Oracle RTD	IBM SPSS Predictive Analytics	SAS RTDM	X	X	X
Advanced analytics (PMML)	✓	Oracle Advanced Analytics	IBM SPSS	SAS Advanced Analytics	X	Apache Spark	Azure ML / R Server

IMPLEMENTING COMPLEX BUSINESS CASES TO PRODUCTION



* Average time of real projects on a traditional stack







from 8 months

Building complex solution on traditional SW stack

CONTACTS

Viktor Khodiakov

CEO



+7 925 010-92-63



vkhodyakov@gridfore.com

Gridfore LLC

+7 (985) 830-28-63 Bolshoy boulevard 42, bld.1 Skolkovo Innovation Centre Moscow, 121205

