



INTRODUCTION & OVERVIEW

NURU-TECH

IN A NUTSHELL... WHAT'S ALL ABOUT (??





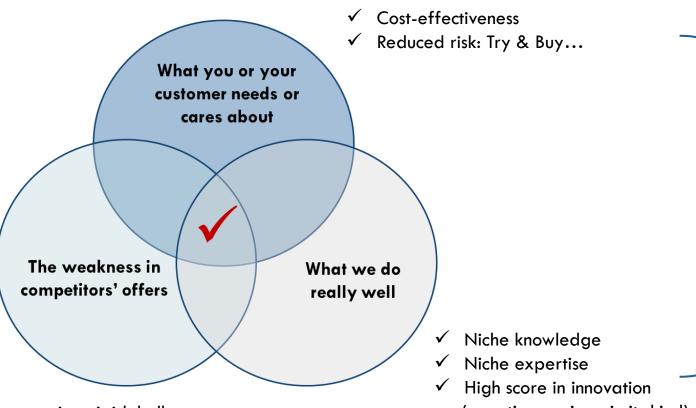
- Businesses are by nature looking for innovative ways to...:
- Further grow their market share, brand, customer satisfaction & profits.
- Consolidate their business and reduce their exposure to risk, or address regulations.
- Support & optimize their processes, operations, reduce costs and expenses.
- Yet... Advanced businesses do not often look at corporate success stories in markets outside US/EU.
- O Some markets in periphery have a rich base in innovative companies, pushed by a culture of high customer service standards.
- Vendors in periphery markets have learned to succeed in a highly flexible, low-price and technologically competitive environment.
- o Regulated industries (especially: Telco & Banking) are subject to quasi identical requirements, therefore solutions are portable.
- > NURU-Tech creates a bridge between European businesses and non-EU/US software companies (B2B).
- We compile and offer a catalogue of new products & platforms, from several vendors.
 - Mature & robust products, designed for large enterprises.
 - Multiple references and success stories in large enterprises (Banking, Telco, Holdings, eCommerce, Airlines, Public Services, etc.)
 - High coverage: products for all industries and all domains... and continuously growing.

We offer alternatives options to meet business expectations about service, quality & performance, ... at very competitive price.



VALUE PROPOSITION: THE BEST OF 2 WORLDS

- ✓ Score points, with innovative ideas & through competitive offerings
- ✓ Make better use of resources...: use them as consultants, not as developers



- Very expensive, rigid, bulky support
- Sometimes outdated technology/architecture
- Not always platform independent

- (sometimes unique in its kind)
- Done it before
- Proven success stories in large corporations

- **❖** Best-of-breed pre-selection
- Corporate-grade products
- Significantly reduced expenses
- **❖** High energy & commitment
- High flexibility & speed
- **❖** Technology- & vendor agnostic

Achieve up to 50% cost savings vs. international brands (average), for equal capabilities and better service.

DOMAIN COVERAGE

Market place-facing **Enterprise-facing**

Smart analytics and predictive modelling (eCommerce)

CDO

Catalogue-driven order mgmt. (Telco & Media)

Real-time event processing & streaming analytics

Industry Solution [Smart camera systems. IoT platform / GIS / RPA...]

Testing [services/tools - wide range]

Text analytics [exploration & sentiment]

Reference data mgmt.

Master data mgmt.

ETL & Data warehousing

Data purging/migration to cloud

Data mgmt., security & governance

(sensitive data discovery, dynamic data masking & access, dynamic authentication & authorization, test data mgmt. preparation & masking (data ops), intelligent consistency checking & controlling... DSGVO, GDPR, KVKK, SOX, GLBA, PCI DSS, HIPAA, FIPA)

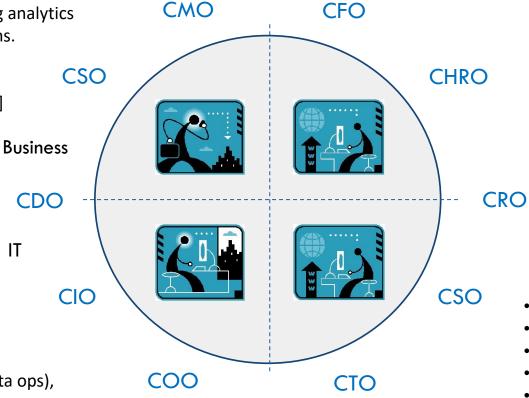
All Industries:



Banking, Insurance & Law, **Public Services & Institutions, Utilities & Production Industry,** Telecommunication, Media & Technology.

- Airline, Retail, Logistics & eCommerce,
 - Smart business process mgmt. & automation, office digitalization
 - **Enterprise Architecture**
 - HR assessment platform in digital age.
 - **Enterprise Planning & Analytics**
 - B2B KYC & Fraud Detection (Finance)
 - Blockchain solutions (bespoke)
 - E2E Site Operations (Telco)

- Cyber-security (PAM)
- **Audits & Certification**
- SOC
- Mobile security & soft OTP
- API gateway (API security mgmt.)



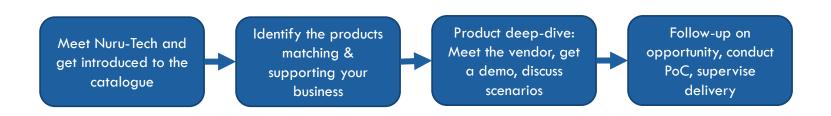
Alternatives or replacement to the following...:

IBM Guardium, IBM Optim, Informatica TDM & DDM, Imperva, Microfocus SDM & TDM, CA TDM, SAP TDMS, Oracle Data Reduction, QuerySurge, Oracle Data Masking Pack, IBM Infostreams, Tibco Streambase, Software AG Apama, SAP ESP, ServiceNow, Flowwright, Creatio, Pega, Appian, Bizagi, Signavio, IBM BPM, BonitaSoft, Cyberark, Beyondtrust, Thycotic, OneSpan, Cisco, Kobil, RSA, Apparo Fast Edit, RapidMiner, DataRobot, Alteriycs, SAS Data Miner, Power BI ML, IBM Maximo, Oracle EAM, Oracle API Gateway...



HOW DOES IT WORK?

- > Nuru-Tech is a match maker, but its office in Germany can act as reseller if need is.
 - The default is to purchase directly from the vendor.
- > Nuru-Tech helps to create the opportunity and relates the customer/consultancy with the vendor.
 - No charges: Nuru-Tech is the sales arm and does the account management for its partner vendors.
 - o Consultancies can supersede product offers with consultancy services of their own, as well as delivery & support, where appropriate.
- > Nuru-Tech is keen on transparency and trusted relationships.
 - We promote a direct relationship with the vendor, rather than eclipsing it.
- > Nuru-Tech can assist customers or consultancies with additional services, on-demand.
 - Mediation of consultants, expert resources or near-shore partners, independently of its product catalogue.







HOW TO READ THE CATALOGUE?



- > The catalogue assumes one is searching with a purpose, i.e. for a solution to a pain-point.
- Starting off from your industry & domain... (Note: some products are valid across industries)
 APPLICABLE INDUSTRY: (Note: a product can be applicable to multiple industries at once, or even all)
 DOMAIN:
 SUB-DOMAIN:
- > The following info can be seen for first scanning:

Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References in Turkey
A short heads-up about what this product does, very high-level.	Puts the product in business context, i.e. in what kind of situation it fits, thereby helping to better assess its potential match.	Names the major competitor product from international markets and global brands (if any). If none, it implies the product is truly innovative	Reference to Turkish success stories, often major corporations.

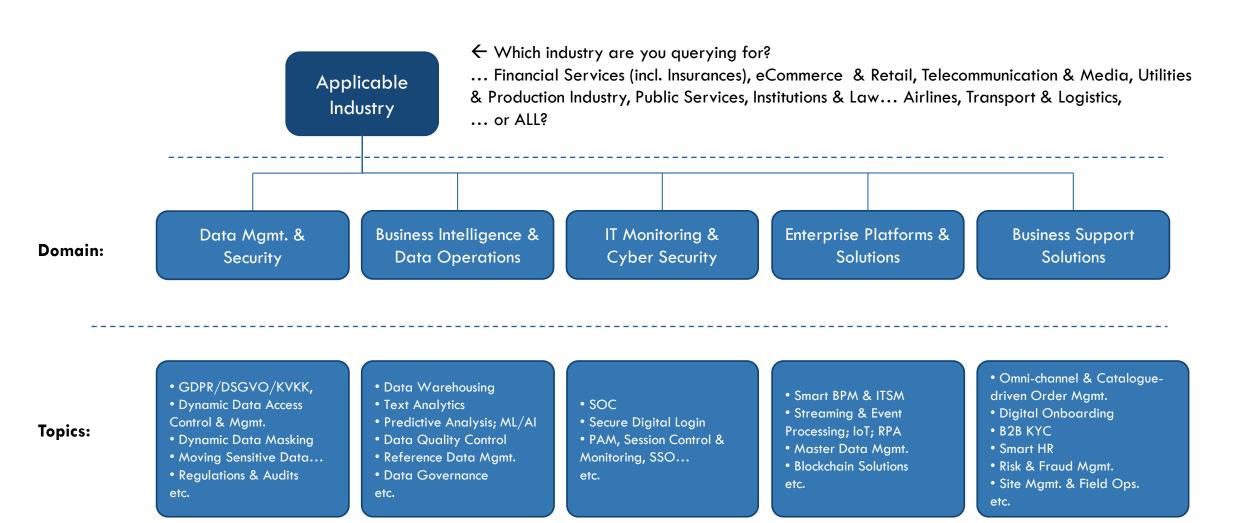
- More information can be provided on request, for every product:
- O Detailed description, key features & differentiators, comments on configuration & installation, pricing scheme, etc.
- Product & vendor name & contact details.
- More product material...

... Information and assistance for further steps, free of charge & commitment.



SITE MAP... FINDING THE RIGHT SECTION

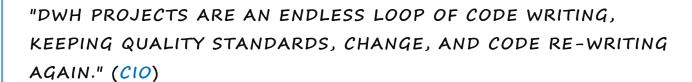
(Possibly subject to change, as the Catalogue evolves)





CATALOGUE STRUCTURE

- Product Catalogue: Products applicable to...
 - Applicable across all industries
 - Restricted to some industries
 - Financial Services
 - eCommerce & Retail
 - Telecommunication, Media & Technology
 - Utilities & Production Industry
 - Public Services, Institutions & Law
 - Airline, Transport & Logistics





DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

TOPIC: DATA WAREHOUSING

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Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
An ODI code generator, working from any given transformation script written in SQL. The output code is machine-generated, standardized, has expert developer grade, and is being generated within seconds allowing for instantaneous review and test. The tool also auto-generates documentation.	This tool solves the following pain points, or greatly reduces their impact: • DWH projects are lengthy and expensive. This tool reduces development time to a fraction of what it used to be, and thereby also reduces overall delivery time. • There is too much focus on development and too little on analysis, therefore there is often plenty of rework. • The ETL architecture is complex and sensitive to quality variations, adding risks to maintenance, operations, SLA's. • It is difficult/expensive to find competent resources in ODI, and to retain them. • This tool helps in avoiding a degradation of standards throughout the solution lifecycle time, especially with high resource turn-over. • Documentation gets outdated quickly there is a need for auto-documentation as well as integration with modelling tools (e.g. Power Designer). • The tool also provides clarity about testing scope and guidelines, i.e. methodology alignment, e.g. what is the reference basis for test results? • Similarly, clear lines are drawn about input/output, roles and & responsibilities of the business analyst, tester, and developer. • The SQL code is the output of the Analysis effort, and input to starting the development work. A validated SQL statement is one that demonstrates that the mapping and transformation is in principle meeting the business requirement pending its realization in an ETL tool and in-line with the ETL architecture guidelines!	None (!) To consider in an	Turkcell (since 2019) Is Bankasi (since 2020) Garanti BBVA (since 2020) Ziraat Bankasi (PoC completed) Odeabank (PoC completed) SBM (PoC completed) *** Cannot be disclosed ****
Ref. ID: A14	 Development of an entire new DWH from scratch. Development of new DWH modules and new requirements. Architecture review of an existing DWH solution and streamlining on its standards. Migration, e.g. from ODI 11g to ODI 12c. Migration from an other ETL tool to ODI 12c (provided the other tool can generate standard SQL from its own code). 	effort featuring	ETL development (ODI).



"THE FIRST THING I WONDER WHEN I GET A REPORT IS WHETHER THE DATA IS CORRECT." (CEO)

DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

TOPIC: DATA QUALITY CONTROL



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A tool that identifies data inconsistencies, i.e. detects anomalies and triggers alerts, according to predefined thresholds and business rules. It monitors values and trends in data exchange between multiple sources and can execute a vast number of different types of controls.	This tool solves the following pain points, or greatly reduces their impact: • Recurring issues in report reconciliation (e.g. financial reports), or issues recognized late in data consistency and completeness especially in CXO reports. • Lots of information getting stored and transferred during daily operations in all business areas. Large organization struggle with the handling and controlling of large amounts of diverse data, even more so when it is being transformed and the same information is replicated in different systems for various purposes. These anomalies may have following impacts on business: • Billing & reporting problems because of duplicated, outdated, or corrupted data. • Customer trust issues because of miscalculations or missing/incomplete data. • and many more, on both transactional side and business intelligence. • The tool enables data accountability and mandates data quality verification, upon detecting of anomalies or inconsistencies, and possibly driving auto correction. It helps formulating data quality and data governance standards. • As a simple but robust IT tool, it addresses a need often missing in operations: • Creating alerts to prevent bad experiences. • Easy operations, e.g. making easy visual data consistency rules and check results. • Thereby, it helps getting rid of manual code, or SQL scripts, for each control, and provides a single platform from which all controls can be designed and executed. • This tool can also be used to verify consistency of complex order entry, e.g. in a complex enterprise when multiple sources are required to contribute to an order. • It is also very suitable in big migration projects, both for testing structures and	QuerySurge Informatica Data Quality To consider in	• ING Bank (since 2014) • Akbank (since 2014) • Fibabanka (since 2019) • Turkcell Superonline (since 2014) • Türk Telekom (since 2017) • Vodafone TR – Expected • Etisalat – Expected.
Ref. ID: A8	consistencies and for quality assurance of the data migration itself all with same license and tool. • By including multiple parties in escalating warnings/issues early on, it reduces IT's bottleneck effect when investigating urgent issues often too little, too late.	and needs embe	dded controls and alarm for quality assurance.



DATA: IT'S ALL IN EXCEL!

EVERY REQUEST HAS TO GO THROUGH IT ... " (CIO, CSO)



DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

TOPIC: REFERENCE DATA MANAGEMENT



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A tool that enables business users to prepare and manage its data assets, in particular reference data & lookups. It manages and controls access to reference data deep inside IT data systems, makes abstraction of technology layers and data models.	This tool solves the following pain points, or greatly reduces their impact: • Quickly addresses inconsistencies or gaps in reports: missing, unreferenced or nameless reference data can be quickly corrected. The latency in defining reference data (such as tariff code, reseller id, branch id, etc.) in ERP systems can be bridged, e.g. while the transaction data is already in DWH system. • Any known data problem on the source system may take a long time to correct which means the reports will show incorrect data until the issue is resolved. • Some information may not be kept in any enterprise systems and are subject to manual entry (e.g. sales quotas and targets, score cards, list of leads, results of surveys, etc.). • This info is typically kept on Excel "somewhere", thus also liable to data security and protection issues or losses. • Their manipulation is error-prone: changes should be approvable and tracked. • The hierarchy on which the enterprise reporting is based is often built on the financial reporting criteria, or on organization hierarchies as integrated from HR systems. However, departments such as Sales or Marketing may have different hierarchies which they want to use when viewing their reports. These should be edited easily. • Business/IT Units do not need to have technical skills or specific knowledge of the data model and can manage their data through an easy-to-use interface to the database. • All transactions by all users happen through a single centralizing platform: all transactions are enabled, controlled, verified and logged following the same processes	wants to hand o	• ING Bank (since 2020) • Vodafone (since 2020) any organization that ver control to business to wn reference data and lookups.
Ref. ID: A9	and standards.		



"PROCESSING DATA STREAMS AND REAL TIME EVENTS IS ALL GOOD AND EXCITING.

BUT ROI, TIME-TO-MARKET AND COMPLEX BUSINESS SCENARIOS ARE STILL AN ISSUE." (CMO)

DOMAIN: ENTERPRISE PLATFORMS & SOLUTIONS 🥁

TOPIC: STREAMING & REAL-TIME EVENT PROCESSING



Business Use Case & Pain Points Addressed References [in Turkey] **Short Description Competitor Product** A tool with powerful and flexible This tool solves the following pain points, or greatly reduces their impact: • IBM Infostreams • Akbank (since 2017) • Carrefour (since 2016) stream-processing capabilities to • Supports the vision of a continuous intelligence platform and customer journey • Tibco Streambase capture and act on real-time orchestration: SAP ESP • Dogus Teknoloji (since Software AG Apama 2016) o Real time event processing capabilities. events. • Garanti BBVA (since 2018) o Real time visualization and dashboarding. Pegasystems • ING (since 2018) The fastest way from idea to o Possibility of integration with intelligent processing and machine learning. implementation: it was designed • High maturity and reach: • Is Bankasi (since 2013) from ground-up for business o A very large amount of scenarios have already been implemented in areas such as • Pegasus (since 2018) users, with minimum dependency real-time marketing, customer experience mgmt., real time fraud mgmt., etc. • TEB (since 2014) • Türk Telekom (since 2015) on IT. Its visual and user-friendly o Preventive maintenance: suitable in industries providing equipment and • Turkcell (since 2016) interface allows designers to maintenance services. conceptualize and release new o Customer support: proactively inform customer services of events affecting quality Vakifbank (since 2014) scenarios quickly, exploiting new of service, and anticipate preparations required to compensate failures. • Vodafone TR (since 2016) opportunities and prevent threats. o ... and many more: data and business insight can be monetized through the • Yapi Kredi (since 2015) implementation of almost any scenario. Millenicom (since 2016) The implementation life cycle • The tool has the ability to sustain short time-to-market after first delivery, i.e. through counts in days or weeks, rather its intuitive and easy-to-use editors. • To further accelerate ROI, it comes with a set of ready scenario in several business than months. International: • Raiffeisen RU (since 2018) areas (e.g. marketing and fraud mamt., for banking, telco operators and e-commerce). • Adaptability to any business situation and need: • T-Mobile (since 2017) To consider in any organization • MTS (since 2017) o It features 2 scenario editors: (1) Eclipse RCP to design complex scenarios, and (2) web-text based scenario editor for business users and easier scenarios. • LCW (since 2020) that wants to implement o Actions: being one of the core components of the platform, a rich set of out-of-the-• Vodafone UKR (since 2017) scenarios triggered from realbox actions can be extended easily. Unibank (since 2018) time data across the enterprise. • Home Credit (since 2018) o Vendor has the ability & flexibility to support with non-standard listeners. • All-in-one platform, from listener to action: all scenarios can be entirely modelled, Ref. ID: A10 E2E, i.e. on one single tool supporting the whole enterprise.

"WE CAN NEVER HAVE THE RIGHT TEST DATA, SECURED & MASKED, READY AT THE RIGHT TIME, DELIVERED TO THE RIGHT GROUP." (CIO)



"IS THERE ANY MULTI-PURPOSE TOOL TO HELP WITH PURGING & ARCHIVING, OR WITH MASKING DATA WHILE MIGRATING TO CLOUD? ...ANYTHING BETTER THAN SCRIPTS!" (CTIO)

DOMAIN: DATA MGMT. & SECURITY TOPIC: TEST DATA MGMT. & CLOUD MIGRATION



Short Description

A tool for **test data mgmt.**, **purging or migration** – including between different technology platforms.

It copies data from between environments (e.g. "production" to "test"), while applying rule-based masking of sensitive data.

Both full extraction and data sampling are supported.
Consistency is preserved, by starting from a given table or from sample records, then deriving all explicitly or logically related records.

It can also synthesize new data (columns or records), for test purposes, based on given patterns and rules.

Business Use Case & Pain Points Addressed

This tool solves the following pain points, or greatly reduces their impact:

- Reduces complex and time-consuming tasks in the identification/creation/generation of test data inside of IT organizations, which increases exponentially with the number of data systems involved in testing, and the data integration between these systems.
- Reduces time & cost of critical resources to define & extract suitable test data (e.g. DBA's, Senior Testers & Developers), as well as execution time:
- o It eliminates the need for complex scripts and additional maintenance effort.
- o Its jobs are repeatable towards multiple environments, truncate & recreate ondemand (e.g. for Agile teams).
 - o Can also be used as tool for purging & archiving related sets of records.
- Data/Information Security: any additional privacy can be achieved according to any masking/scrambling rule, and for any of the data that is being copied, which can be table-to-table or the result of queries, or schema to schema. More data can also be synthesized (i.e. generated).
- This tool provides a repeatable & reliable approach on how to apply systematically restrictions related to data privacy and security, for data replication scenarios and/or access to production data (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements).
- Operations support: use this tool also for ad-hoc analysis of production data, for operational purposes not only for testing: one-time securing of data on a production system with in-line masking (e.g. for hot analysis of production issues).
- Integration with ODI (in case ODI was used to create test environments): reading the ODI jobs and importing them automatically (i.e. a time saver to organization managing their environment with ODI).
- HW costs savings by working with reduced data sets (consistent samples of data), yet still guaranteeing consistency and meaningfulness of data, in multiple environments.

- Informatica TDM
- IBM Optim (while also being compatible with other IBM Products)

Competitor Product

- Micro Focus SDM
- Oracle Data Masking Pack
- CA TDM
- SAP TDMS

Turkey

References

- Turkcell & Turkcell
 Technology (since 2011)
- Turkcell TOHAS (2020)
- Türk Telekom (since 2017)
- THY (since 2017)
- BKM (Banking Authority) (since 2017)
- QNB Finansbank (2019)
- Anadolu Sigorta (2020)
- ING Bank (since 2021)

International:

• Prior Bank (Since 2013)

To consider in large organizations struggling with the mgmt. of their test data, or with purging, archiving & migration, and with the handling of its sensitive content.

Ref. ID: A2



"WHO CAN GUARANTEE THAT MY SENSITIVE DATA ARE PROTECTED AND SECURED, IN ONE SINGLE SHOT, NO MATTER WHO OR WHAT QUERIES IT?" (CTO)

DOMAIN: DATA MGMT. & SECURITY

TOPIC: DYNAMIC DATA MASKING



A tool for dynamic data masking,			References [in Turkey]
c.e. masking sensitive data on the fly, to any user or application querying for it, dynamically, according to business rules and user profiles. It is placed between any client application and any given database, with high availability, and at no impact to any client or user.	This tool solves the following pain points, or greatly reduces their impact: • Large organizations must secure their sensitive data, as they are being accessed and queried from many different sources and users at once (both via applications as well as SQL editors). • All data protection and security is handled at once, from a single application, for all possible users and clients of a database. • It addresses the need to consistently handle data security for its internal staff as well as for external consultants, according to business rules that apply different levels of access controls (i.e. different types of masking/hiding) to different user roles. • Manageability: all database access and scenarios are controlled from a single point. • Reduces role of the DBA as a player involved in the control of whether sensitive data is being accessed, both allowing him/her to focus on managing the database instead, rather than auditing or managing the exposure of data. • Dynamic adaptation of rules applies not only to user role, but also the querying medium (e.g. query originating from Siebel vs. from a Toad client, or from HQ offices vs. from a Branch), thereby providing a lot of differentiating flexibility to adapt to any business need. • Provides a comprehensive approach on how to apply systematically restrictions related to data privacy and security (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements). • Consistently applies the same rules and controls towards operations, i.e. by also controlling data shown to operations staff, i.e. in their manual and direct operations on database-level.	looking for	Vodafone (since 2017) Is Bankasi (since 2016) QNB Finansbank (2018) Turkcell (since 2020) Anadolu Sigorta (2020) ING Bank (since 2021) In large organizations a catch-all solution to access to sensitive data.

"MY DBA'S SPEND 60% OF THEIR TIME MANAGING DATA ACCESS PRIVILEGES & CONSISTENCY FOR ALL USERS." (COO)



"DATA ACCESS REQUESTS APPROVED BY DATA OWNERS MUST BE FULFILLED AND APPLIED DYNAMICALLY, ELSE ITS CREATES FAILURE POINTS." (CDO, CIO)

Ref. ID: A5

DOMAIN: DATA MGMT. & SECURITY TOPIC: DYNAMIC ACCESS CONTROL & MGMT.

data exposure from the very beginning.



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A centralized tool for database access control, managing any application/user access and access privileges to any database, dynamically, upon every new database session.	This tool solves the following pain points, or greatly reduces their impact: • Large organizations must secure and organize/control access to their data, by means of a defined data ownership structure and data access approval processes, then by effectively fulfilling the requests and applying those controls. The more complex the organization and the more data is distributed in multiple systems, the more this information becomes extremely tedious and complex to assess or compile. • Eventually, this tool controls and report at all times any decision about data access:	None (!)	Is Bankasi (since 2018) ING Bank (since 2021)
By doing so, it effectively implements data mgmt. & data access policies of an organization, and hands-over control to data owners, away from DBA's.	who does what, why, when, how, for how long — e.g. through what application, for what purpose, and by whose authorization (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements). • It removes the DBA as the low-level player usually charged with the responsibility of granting data access and privileges, often without proper control, and although he/she most likely lacks sufficient judgement & competence to decide.	organize policies a critical in	sider in large & complex ations in which data access and their enforcement are of aportance, and in which size ents effective solutions
The tool works in high availability mode. There is no performance drop to any client or user.	This allows him/her to focus on managing the database, rather than managing users: o The tool owns and determines data access rules, then automates and enforces access control for any upcoming connection request – rather than requiring explicit calls and coordination between requester, approver and DBA. o Proactive control helps getting rid of repetitive scripts and queries crawling user lists, metadata and logs for verification.		
	o It also implements database user activity mgmt., by keeping all access logs, as well as all access request logs, and supports auditing and reporting over it. • Fundamentally, this tool manages access on data owner level, not DBA level: it enables the highest maturity in data mgmt. & data security policies, i.e. based on explicit access granted by explicit data owner, after approval process, and for a time-limited period (with refresh option).	a review of cultification already identification unnecessary privi	lementation will require rrent access rights and y many redundancies, leges and users, thereby e to a major reduction in



"I CAN'T SLEEP AT NIGHT BECAUSE NOBODY CAN TELL ME CLEARLY WHERE IS MY SENSITIVE DATA, AND HOW I CAN STAY ON TOP OF IT!" (CDO)

DOMAIN: DATA MGMT. & SECURITY

TOPIC: SENSITIVE DATA DISCOVERY.



discovery, identification and	This tool solves the following pain points, or greatly reduces their impact:		
anywhere in an organization's data infrastructure Both structured & unstructured data, and up into connected client PC's and their clipboard! For the special case of security threats in unstructured data, it can also apply masking/blurring on the fly, and prevent leaks.	 Large organizations may be challenged in understanding where they store sensitive data that is subject to special regulation and/or internal security: o In structured data, scanning any connected database (RDBMS). o In unstructured data (i.e. any data not stored on RDBMS), whether on file systems, HDFS, or even [personal] client computers, as well as for any file type – e.g. text files (xml, txt, jason, etc.), office documents, images (.jpeg, .png, etc.), pdf. As such, this tool is instrumental to the baselining and implementation of an organization's data security framework (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements). It helps organizations to first define which data is "sensitive", then understand whether they have any, and where it is being stored in order to take both controlling and securing actions thereafter, in both transactional and BI environments. It does so not only by looking at meta data (i.e. based on interpretation of column names), but also by looking at the data itself, and in multiple locations – up to inside client computers. A number of actions can be triggered upon finding matching data, turning it not only into a tool for reporting, but also operations. Masking can be applied in real-time on unstructured data, i.e. upon having been identified as sensitive – thus taking immediate preventive actions against leaks. With the help of this tool, organizations can continuously re-assess their risks and exposure, as their IT ecosystem evolves, and enforce control over what sensitive information is being replicated on client computers – eventually also allowing intrusive action to secure it in real-time. A number of actions can be triggered upon finding matching data, turning it not only into a tool for reporting, but also operations. 	organizations, about the where and where help	 Is Bankasi (since 2019) QNB Finansbank (2019) THY (since 2018) Ziraat Bankkasi & Ziraat Katılım Bankasi (since 2019) Ziraat Technology (since 2020) Ziraat Bank (since 2020) Turkcell (since 2017) IBTech (Tech. Company of Deniz Bank - 2018) Turkiye Finans & Turkiye Finan Katilim (since 2020) Anadolu Sigorta (2020) ING Bank (since 2021) Tin large & complex where uncertainty prevails eabouts of sensitive data, p is needed in managing heir spread.



"MY DATABASE CONNECTION DETAILS ARE KEPT IN EVERY CLIENT, INSTALLED ON EVERY PC. YOU CALL THIS SECURE?" (COO)

"MY OPEX IS STILL TOO HIGH! REDUCE IT, EVEN IF BY 50K." (COO)

DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

TOPIC: DATA WAREHOUSING & DATA OPERATIONS



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
An SQL query editor software (TOAD-like), but web-based, to connect all RDBMS types from a single platform. The effect is consolidation, scale, enhanced security as well as savings in operational costs.	This tool solves the following pain points, or greatly reduces their impact: • Large organizations must install and manage SQL editors on every client PC: o This is a bottleneck and generates continuous costs in IT desktop support (e.g. installing database agent, client application, set parameters & complete configuration). o Assets must be managed for new/moving/leaving users, etc. o Inventories must be updated: licenses are usually by number of installed users and admins (i.e. on PC-basis): these constraints are being evaded, by providing a single tool for all users. • Cost savings in licenses as well as in operations. • Very easy handling of access towards external consultants, since no installation is required on their PC. • DBA's regularly update the system: if any IP or service name is changed, all clients would have to be updated. Henceforth this would be done in a central place, once for all. • A centralized platform allows some security measures to be applied, such as hiding connection parameters, thus heighten control of database access (i.e. who is supposed to access what database).	load of desktop su	• Is Bankasi (since 2017) • Dogus Teknoloji (since 2019) • Anadolu Sigorta (since 2019) to ease the day-to-day apport & DBA's, reduce se common standards.
Ref. ID: A3			

"ANY DBA WITH ROOT PRIVILEGES CAN ACT WITH TOTAL IMPUNITY...
UNDETECTED, UNTRACED!" (CTO)



"I AM SPENDING MILLIONS ON LICENSES FOR GLOBAL BRANDED PRODUCTS, EVERY YEAR. GIVE ME AN ALTERNATIVE!" (CTIO)

DOMAIN: DATA MGMT. & SECURITY

TOPIC: SECURE DATA BASE LOGGING (REGULATIONS & INTERNAL AUDITS).



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A tool that monitors ALL database user activities, regardless of channel, user or user privilege (especially including DBA's), securely logs them (safe from editing), and provides flexible reporting and alarms over them.	This tool solves the following pain points, or greatly reduces their impact: • Essentially defines itself as an alternative to IBM Guardium with equivalent capabilities and purpose, but at significantly more affordable price. • Large organizations need a central AND secure place in which ALL activities related to a given database are being logged, by any possible users, including those have privileged, direct or root access to the system. • This tool closes the security loophole given by DBA's themselves, i.e. securely logs EVERYONE's transactions without exception and work-around • By doing so, it also addresses a security need in the organization's data security framework (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements). • It performs detailed database user activity monitoring and has both a session and an SQL transaction logger. • It can trigger action upon the violation of some business rules (e.g. alarms, messages, or other). • It has an enhanced built-in reporting infrastructure, for legal or company-internal reporting. • About 40+ pre-defined reports (most frequently required). • Ability to define and design additional ones.	strictest regula	• Is Bankasi (since 2019) • Turkcell (successful PoC) n order to address the tions about transactions on a database.
Ref. ID: A1			



"BUSINESS AND **IT** DON'T MEAN THE SAME THINGS WHEN THEY TALK: EVERYONE HAS A DIFFERENT INTERPRETATION OF WHAT DEFINES AN ENTITY." (CDO)

DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

TOPIC: DATA GOVERNANCE (DATA CATALOGUE)

Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A tool that helps defining and managing data across the enterprise, scanning and discovering physical data elements in IT systems, and unifying them under a single business glossary. It matches physical data elements of various degrees of granularity with their logical counterparts in the glossary, thereby also defining owners as well as other characteristics.	This tool solves the following pain points, or greatly reduces their impact: • Large organizations need a central dictionary, unifying the definition and attributes of all data and their occurrences across the enterprise. • Treats and models data as an asset (information architecture). • Specifies general characteristics and policies on data, no matter where they are implemented. • Records an explicit link between business semantics and data records in IT, i.e. data in their various forms of implementation and locations. • Answers the questions: • What do I have, where, how often, related to what and whom, consumed by whom? • Provides the answers on business level, and for all data, not only "sensitive ones". • A systematic build-up of the glossary can be pursued, e.g.: • Proceed iteratively in concentric circles: domain > database -> schema -> table -> column, allowing for a maturity build-up, i.e. capturing enterprise meta data with ever more fine-grained detail. • Starting with documenting sensitive data: apply known definitions and harvest results then repeat on other data topics.	IBM InfoSphere Information Governance Catalog Microsoft Data Catalog Informatica Enterprise Data Catalog Abinitio Metadata Hub	Is Bankasi (PoC ongoing) Turkcell (PoC ongoing)
Ref. ID: A <i>7</i>	 Maps business concepts to technical assets. o Business and technical teams are bound by a common language, or "translation". o Provides unique business definition of sometimes ambiguously defined concepts. o Gives an explicit link to where any business data is distributed/implemented physically, on entity and attribute-level, as well as in which database, schema and domain. It is a building block in an organization's data security framework (See also GDPR, DSGVO, SOX, GLBA, PCI DSS, HIPAA, FIPA, KVKK & BDKK compliance requirements), enabling proper data mgmt. by determining data owners and providing a platform through which data can be easily defined, related and looked-up. 	common dictions entities, and docu	there is a need to create a arry of business terms and ment the mapping to their tion(s) in IT systems.



"BPM TOOLS ARE NOT AGILE. CHANGES OR NEW PROCESSES ARE STILL SLOW TO IMPLEMENT & RELEASE ... AND IT IS NEVER IT'S PRIORITY." (CHRO, CSO, CFO)

DOMAIN: ENTERPRISE PLATFORMS & SOLUTIONS TOPIC: BUSINESS PROCESS MANAGEMENT (BPM 2.0)



	TOTTE: DUSTRESS TRUCESS MARKADEMERT (DT M 2.0)			
Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References	
A business process mgmt.	This tool solves the following pain points, or greatly reduces their impact:	• Pega	Turkey:	
software platform (BPM)	• It enables medium- and large-scale organizations to design and deploy unlimited	Appian	• BNP / TEB (since 2016)	
implementing complex business	processes that seamlessly interconnect people and systems, at low cost of time and	• Bizagi	 Vakifbank (since 2014) 	
processes, and supporting process	resources.	• IBM BPM	• ETS Tur (since 2019)	
transformation into a fully	• Design of new processes (or enhancing existing ones) don't require vendor or IT	• Signavio	• Ülker Group (since 2014)	
digitalized and automated	support, thanks to its intuitive and ease of use, both in design and deployment.	• BonitaSoft	• Borusan Enbw (since 2019)	
corporate environment. That	• Process improvements: every company, once it reaches a certain size (> 50	 Software AG 	Aegon (since 2015)	
includes also ITSM and other	employees), has business processes which need to be conceptualized, designed, and	• Creatio	Katilim Emeklilik (since	
support functions.	eventually managed. This BPM platform helps achieving this as digital platform.	 Flowwright 	2015)	
	o Works literally as designed (i.e. as visualized in a designed flow).	 ServiceNow 	• Bilgi University (since 2019)	
It is renowned for its surprisingly	o Supports process analysis (bottleneck analysis).		• Sysmex (since 2016)	
easy design- and release	o Promotes proactive interactions – replaces emails to track & manage business.	• Eba	• Eczacibasi ESAN (since	
capabilities, allowing for agile	o Streamlines and accelerates processes and removes paperwork.	 Paperwork 	2013)	
implementation and very low IT	 New versions can be released instantaneously and informally, without breaking the 		• Ünlü & Co (since 2019)	
dependency.	consistency and execution flow of old running ones.		 Emeklilik Gözetim Merkezi, 	
	Collaboration:		incl. 18 pension fund	
T	o Social networking: supports document sharing & messaging, interactive group		companies (since 2018)	
To consider in any digital	conversations, video calls for co-working in remote operations.		• A101 (since 2015)	
ransformation, improvement in	o All-in-one platform: it supports open communication & messaging.		QNB Finansbank (since	
business process mgmt., or	• All records of communication are preserved on this single platform.		2019)	
business process automation.	• Compliance, Safety & Security:		• Tuborg (since 2020)	
	o Secure Data Sharing.		•	
	o Keeps all logs and traces.		International:	
	o Built-in warnings.		• Pladis/UB (since 2017)	
	• Supports access-protected document repository, i.e. only through the platform, with		• Kiltoprak Trust (since 2017)	
Det ID A12	meta-data search or full text search support and supports the document life cycle		• TMF Group (since 2015)	
Ref. ID: A12	through integration with a document archiving/mgmt. system.		· TMIF Group (since 2015)	



"WHEN DOING BACKGROUND CHECKS ON ANY OTHER COMPANY, THE FIRST THING TO DO IS TRY GATHER REGISTRATION INFO AND OTHER PUBLIC DATA... UNFORTUNATELY OFTEN VERY FRUSTRATING AND VAIN." (CRO)

DOMAIN: BUSINESS SUPPORT SOLUTIONS 🐒

TOPIC: B2B KYC.



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
"KYC as a Service for B2B businesses": a machine learning, web-based intelligence suite that provides market intelligence about other companies, e.g. competitors, affiliated businesses, suppliers, B2B customers, franchises, etc., by: • querying and tracking companies or individuals, i.e. as per information kept in government institutions and available in public announcements. • crawling public information, interpreting news, and assessing their digital presence. In doing so, it flags and provides	The following features and advantages should be noted: Unique in the market, at this level of complexity and coverage: the output makes use of data and machine learning techniques to produce a unique result. All information it compiles is entirely based on public information, starting with the formal national registry of commerce, but also including scores of other data available online — international, national and regional. The tool supports ad-hoc search as well as provides information about risks associated to a given portfolio, daily: Alerts & warnings from a rich set of public government sources. Alerts & warnings from checking the company's digital presence in the internet. Extractions from public/online news: more than 920 news outlets(!). News hunting provides a range of options to improve accuracy and insight. Search for news related to companies listed in a portfolio & associated keyword(s). Further features and modules: Module predicting likely fraudulent merchant (i.e. POS machines owners). Module for license plate search in news (financial/insurance fraud related to cars). Balance sheets scoring (risk score), performed on given/uploaded balance sheets. Shareholder overview: distribution "pie-chart" (beta version) — provided upon ad-	None (!)	 TEB (since 2019) TEB factoring (since 2019) Pasha Bank (since 2019) Shell (since 2019) Multinet (since 2019) Kuveyt Türk (since 2018) Akbank (since 2020) Moka (since 2020) Finansbank (since 2020)
first assessments about the health and risks of other businesses.	hoc search for companies. • It is very easy to use, provides immediate results, and allows for easy maintenance of track lists (portfolio's). • Multi-lingual support (for now: Turkish & English — more can be added easily). • Graphical visualization of business-to-shareholder-to-business relationships. • Has a very easy and transparent subscription scheme (see below). • Comes as a data service: no IT footprint (login over a web page).	institution, where formal informa about ANY con	any B2B business, or there is a need to view ation & official statuses, ampany registered in the ready to use!
Ref. ID: A16	• API connections are also supported, for direct integration into legacy enterprise tools.		



"I NEED TO CONTROL THE ACCESS TO KEY ASSETS OF MY DATA CENTRE & NW, BUT MY TOOLS ARE HARD TO INTEGRATE, FRAGMENTED AND NOT SCALABLE... I NEED A USER-FRIENDLY & UNIFIED PLATFORM!" (CSIO)

multi-tenancy).

Ref. ID: A11

DOMAIN: IT MONITORING & CYBER SECURITY

TOPIC: PAM.



Short Description Business Use Case & Pain Points Addressed Competitor Product [Permitted] References "Protect What You Connect": a This tool solves the following pain points, or greatly reduces their impact: Cyberark Turkey: • Arvato (since 2018) Gartner-recognized cyber • Organizations with important data centres struggle with risks of security breaches: • Beyondtrust • BMC Power (since 2016) security tool in the field of o There are millions of data records stolen/leaked every day, including from mature, • Thycotic big & reputable brands. • Centrify • Millenicom (since 2017) Privileged Access Management (PAM), to efficiently manage, o Every breache costs an average of 3,5 Mio USD; 81% of breaches are due to • TurkishBank (since 2018) monitor secure access to any stolen passwords; 43% of breaches are linked to internal actors. Nurol (since 2018) • Sekerbank (since 2017) platform, device, or network • The following obstacles are frequent sources of problems: To consider in any organization, • Sutas (since 2017) element through a single & o Authorizing and tracking the activities of privileged accounts. data centre, that is concerned • Turk Telekom (since 2007) o Visibility and accountability on account-level, not as users. centralized platform. about security breaches, • Turkcell (since 2011) o Lack of dynamic capabilities to enforce certain policies. especially of privileged accounts. o Breach of compliance with policies and auditing requirements. • Vodafone Fix (since 2017) It supports organizations in securing their critical assets and o Incomplete coverage (e.g. Linux, .ssh, network-based devices...). • Denizbank (since 2017) assists in achieving regulatory o Missing functions to query and audit sessions on any of the secured devices. • Medline (since 2016) compliance. o Lack of policy enforcement, differentiated by user, user groups, and device groups. • Petrol Ofisi (since 2018) • In response, this tool handles all aspects and complexities associated to any needs • ING (since 2018) It is the fastest to deploy in the and scenarios of a data centre, regardless of whether applied to real time market, and delivered with communications systems, desktops, mobile devices and/or collaboration applications, or International: broadest access security portfolio. to connected machines in IoT scenarios. • RBC (since 2018) Top benefits: • Etisalat (since 2017) (Data centre security: PAM, MFA, o Supports an extensive access security strategy to control, monitor, secure and audit • Everstream (since 2018) SSO, time/geo fencing, session all privileged identities & activities across enterprise IT. • Zong (since 2018) mgmt. and monitoring, dynamic o Protects enterprises from breaches due to stolen credentials or malicious activities. • Ufone (since 2018) password controller, TACACS+ o Ensures compliance with data security regulations and regulations. • ErTelecom (since 2018) o Diminishes insider threats & neutralizes malware targeting privileged accounts. and Radius, etc.) Megafon (since 2017) o Security of outsourced operations & context-aware policy control on NW devices. • MTS (since 2019) o Centralized management of distributed deployments (also/especially in case of



"ONE-TIME-PASSWORD IS UNPOPULAR BECAUSE IT'S USER-UNFRIENDLY... AND ON TOP OF THIS, IT'S NOT 100% SECURE." (COO & CTO)

DOMAIN: IT MONITORING & CYBER SECURITY

TOPIC: PAM.



This tool replaces the code sent over SMS for authentication to customers: it thereby eliminates security loopholes as well as improves customer experience. It includes more features and functions, required for a secure digital login. This tool solves the following pain points, or greatly reduces their impact: • OneSpan • Kobil • RSA • OneSpan • Kobil • RSA • In multi-factor authentication process, it replaces SMS OTP which is costly and increases with the number of customers as well as online traffic. • SMS OTP are not secure: o It is easy to see the content of SMS messages, e.g. for people who have access to the database on the sender side. o SIM card can be copied and intercept the messages sent to a phone. • Simple and seamless user experience: o SMS OTP are disliked as user experience is bad: an SMS must be first received, read, and its code transcribed into the application.	or Product [Permitted] Referer	ences
o With Soft OTP there is automatic authentication in the background – without needing messages to be sent and codes to be copied. • Further user experience-related features can be added/activated: o Push Notification Integration (standard). o QR Code & Captcha & Biometric Integration (Fingerprint, Face, Retina etc.). • The application is highly configurable and adaptable to customer needs – usually not requiring any change on legacy side. Regulatory Compliant	Turkey: • Merkez bankası (Cen Bank of Turkey) (since 1 Ziraat Katılım (since 2020) • Şekerbank (since 2020) • Eximbank (since 2020) • Halk Yatırım (since 2010) • International: • IDB (Bahrain) (since 2 1 UniCredit (Italy) (since 2018) • • *** Cannot be discloss consider in businesses with an important critical self-service component, religion multi-factor authentication	2017) 2016) 200), 200), 2021), cosed *** 2016) ce



CATALOGUE STRUCTURE

Product Catalogue: Products applicable to...

Applicable across all industries

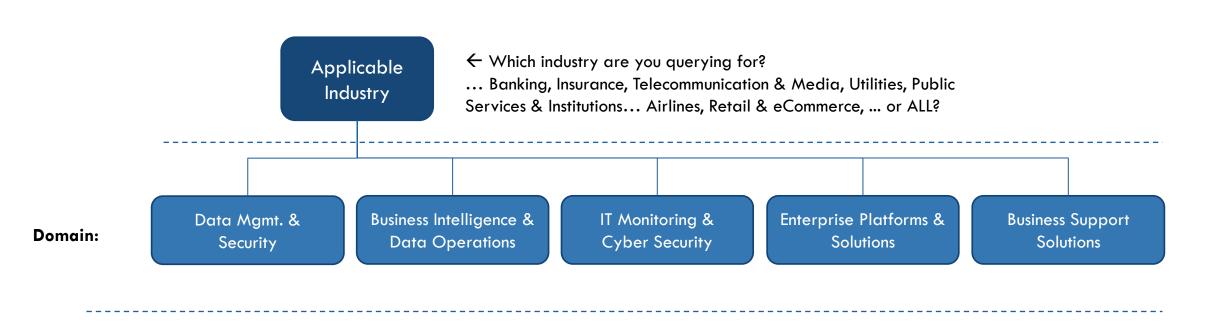
Restricted to some industries

- Financial Services
- eCommerce & Retail
- Telecommunication, Media & Technology
- Utilities & Production Industry
- Public Services, Institutions & Law
- Airline, Transport & Logistics



SITE MAP... FINDING THE RIGHT SECTION

(Possibly subject to change, as the Catalogue evolves)



Topics:

Data Access Control
Data Masking
Handling of Sensitive Data
Regulations & Internal
Audit
etc.

• GDPR/DSGVO/KVKK,

- Data Warehousing
- Text Analytics
- Predictive Analysis; ML/Al
- Data Quality Control
- Data Governance etc.

- SOC
- Secure Digital Login
- PAM, Session Control & Monitoring, SSO...

etc.

- Smart BPM & ITSM
- Streaming & Event
- Processing; IoT
- RPA
- MDM
- Blockchain etc.

- Omni-channel & Catalogue-driven OM.
- Digital Onboarding
- B2B KYC
- Smart HR
- Risk & Fraud Mgmt.
- Site Mgmt. & Field Ops. etc.





DOMAIN: BUSINESS INTELLIGENCE & DATA OPERATIONS

for predictive analysis, without any

dependency on IT – ready to use!



TOPIC: PREDICTIVE ANALYSIS; ML/AI **Short Description Business Use Case & Pain Points Addressed Competitor Product** References Self-service machine learning for This tool solves the following pain points, or greatly reduces their impact: (Machine-learning side) Turkey: • MultiNet (since 2018) • Data analytics projects are expensive, and results are not known. With this tool...: • SAS Enterprise Miner customer journey... o Quick trials are possible, at no cost. • RapidMiner Aygaz (since 2019) A smart data analytics tool that o Results can be seen, before the project starts! (you get what you see) • Otokar (since 2019) DataRobot leverages machine learning o There is neither need for IT support to integrate the results, nor for a BI Tool to Alteriycs • Enuygun.com (since 2019) techniques and helps business visualize the results. Output shows immediately to the user, with clear, easily • TatilSepeti.com (since 2019) Power BI ML specialists or production engineers understandable parameters and intuitive charts. Kredi Kayit Bürosu-KKB with industry expertise to • Every business user can perform machine-learning analyses on a prepared sample of (On the marketing side) (since 2019) experiment and get immediate, tabular data of any kind (e.g. about customer data, products, company, sensors...). CleverTap • TAV (since 2019) intuitive and actionable insight • The complexity of algorithms and scores of Python and R codes have been translated • Gittigidiyor (since 2020) Optimove (e.g. sales propensity, cross/upinto an easy-to-use application with comprehensive dashboards. No need for • Criteo Yemeksepeti (since 2020) sell, churn propensity, production • Dynamic Yield • Ininal (since 2020) sophisticated theoretical background. optimization, demand • With a few clicks, and within a few minutes, data can be uploaded and processed to • Migros – expected. prediction...). extract future predictions & newly found business parameter values. International: • Churn, Cross-sell, Fraud and many more data-driven predictions for relevant business • Chobani (US) (since 2018) · Financial Services questions can be addressed without training or IT-induced latency. • AB Sciex (Singapore) (since Purchase propensity, especially for eCommerce businesses: predict your visitors & 2019) customers. o Improving marketing ROI (+30%): by predicting eCommerce visitors, therefore have a better targeting in campaigns. To consider for business users or o Expanding the target audience itself (+35%): better identification of the visitors production engineers that are looking that have higher conversion than "add-to-basket visitors". for instantaneous analysis of data sets, • Other examples of business scenarios and achievements (non-exhaustive):

o Payment Services: revenue loss from churn was reduced by over 70%. It identified

o Government: effort to fight business fraud and smuggling was predicted with over

churn characteristics and allowed to take preventive action.

ten-fold accuracy compared to previous methods.

Ref. ID: A15



"IT IS STILL TOO EASY TO TRICK PEOPLE WITH PICTURES... WE MISS SIMPLE, SMART, EFFICIENT PLUG-INS TO SUPPORT OUR PROCESSES." (CFO)

DOMAIN: BUSINESS SUPPORT SOLUTIONS

TOPIC: PICTURE FRAUD.



Short Description	Business Use Case & Pain Points Addressed	Competitor Product	References [in Turkey]
A tool that checks pictures given as an input, and matches them instantaneously vs. an own existing pool of pictures, e.g. to find fraudulent recurring insurance claims, or hijacked advertisements.	In principle, fraud cases depend on the business needs/use cases of the customer. This platform could be used in an endless number of scenarios, all of which • Require a comparison of a given image published in digital media, or submitted in a request, with an available pool of "own pictures" to find matches. • Require extraction of text from pictures in digital media, or submitted ones, and their subsequent intelligent interpretation.	None (!)	*** Cannot be disclosed ***
Moreover, it crawls through online digital media and processes pictures containing frames with text, eventually leading to uncover fraud cases.	Implemented use cases: • Help insurances in uncovering fraud by analysing the pictures of accidents and matching them vs. a database of other accident pictures, in order to find recurring claims filed with the same picture. • Help banks in uncovering fraud in the financing second-hand cars: loans are being given according to the value of those proposed cars, but which are wrecked in real.	To consider in any B2B business that relies on photographic material, and in which the pictures can be inducing fraud, or are liable to theft or illicit copying.	
	 The money is instead being used for other purposes. Crawl through the news of accidents in digital media (national and regional): Matches license plates of cars involved in the accidents in order to identify possible fraud cases. This allows for tracing the real cause of the accident. Parses articles to give clues on whether the driver was (e.g.) under alcohol influence, even though the accident was filed in another context. More examples: E-commerce sites may detect theft in product postings. Real-Estate companies may detect sales objects copied by competitors to attract attention from potential buyers, then negotiate a share of the sale. 	• Financial Ser	Specific to: Vices (Insurances) Ommerce & Retail
Ref. ID: A17	• Any company whose business critically relies on picture support.		



"CONSULTANTS ARE PLENTY, BUT THE ONES THAT REALLY UNDERSTAND THE BUSINESS ISSUES, FIND INNOVATIVE SOLUTIONS, DELIVER THEM AND ARE AFFORDABLE, ARE RARE." (CRO)

DOMAIN: BUSINESS SUPPORT SOLUTIONS TOPIC: RISK & FRAUD MGMT.



Short Description	Business Use Case & Pain Points Addressed		Competitor Product	References
Niche consultancy & expertise in data services (English): expert services with competence in data collection and analysis, then enhanced through analytical development with machine-learning techniques. The business background is especially fitting banking and insurance industries.	* Consultancy services * Services can cover (non-exhaustive): • Customer segmentation • Customer unification • Analytical sales planning • Next best product analysis • Score card development • Risk management and process development • Channel optimization • Process optimization • Customer retention • Customer lifetime value maximization • Customer risk scoring • Fraud detection • Collections mgmt. • Forecasting analysis Further insight about ongoing services, past projects and timeling from the vendor.	Consultancy - Specific to • Insurance • Banking es can be requested	To consider when	Turkey: • Akbank (since 2013) • BKM (since 2019) • Allianz (since 2018) • AvivaSA (since 2014) • Multinet (since 2019) • D-Smart (since 2013) • Mastercard (since 2014) International: • Saudi Investment Bank (since 2016)
Ref. ID: B1				

OPERATIONAL DETAILS

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- Ask for an overview of the products.
- There is more than what you have seen here today...
- Discover the catalogue online & drill down for more information:
 - o www.nuru-tech.com
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