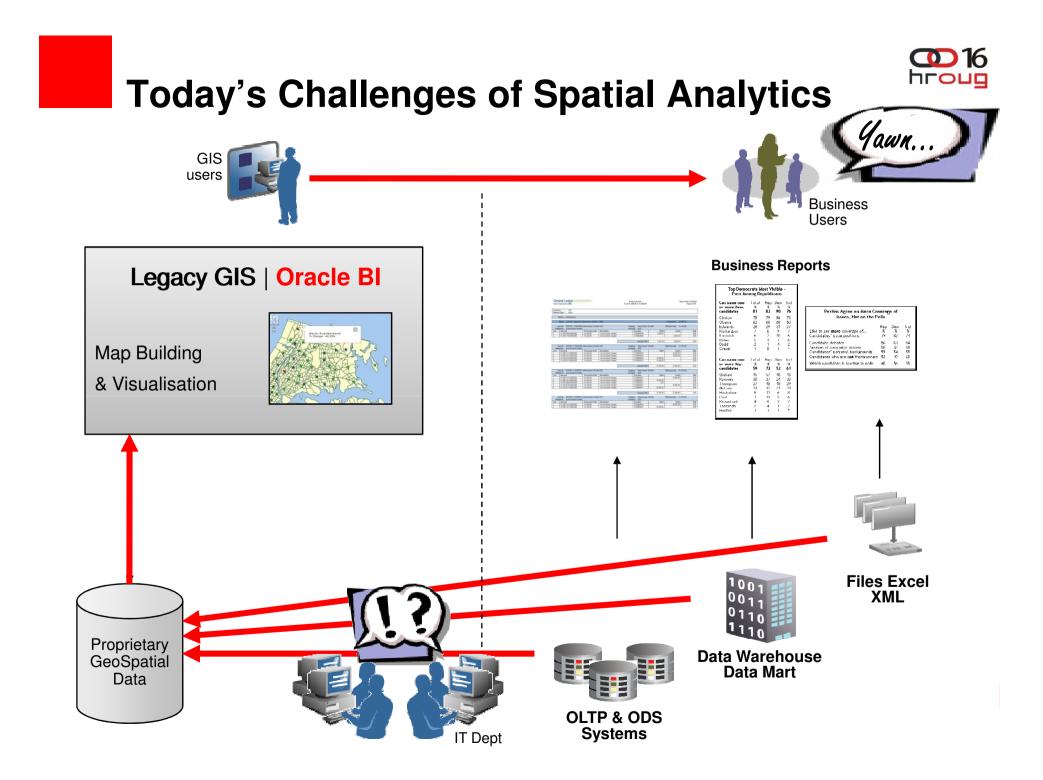


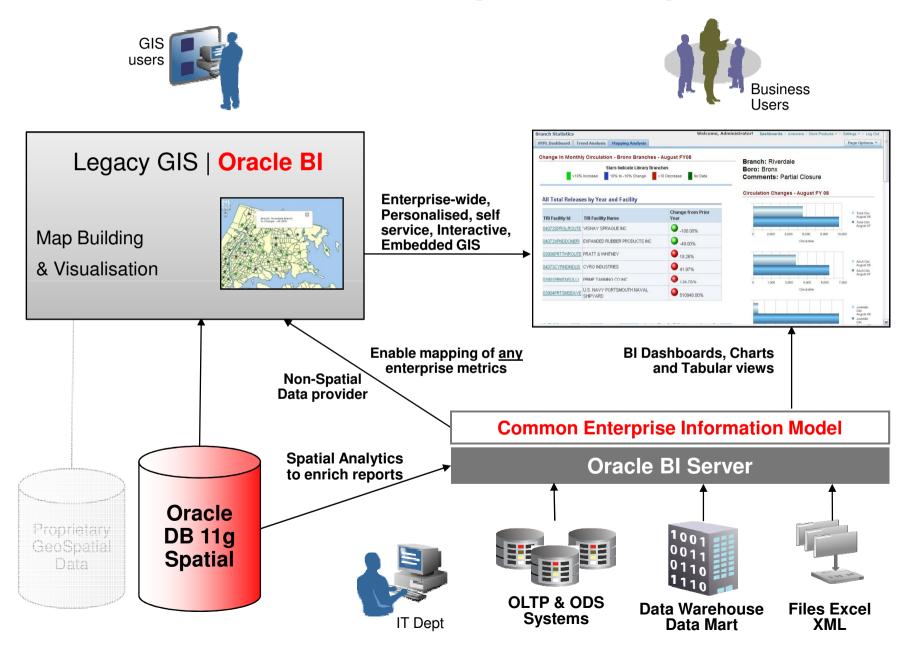
# **ORACLE** NXVTEQ Location Intelligence Cases

Barry Mostert BI Business Development EMEA





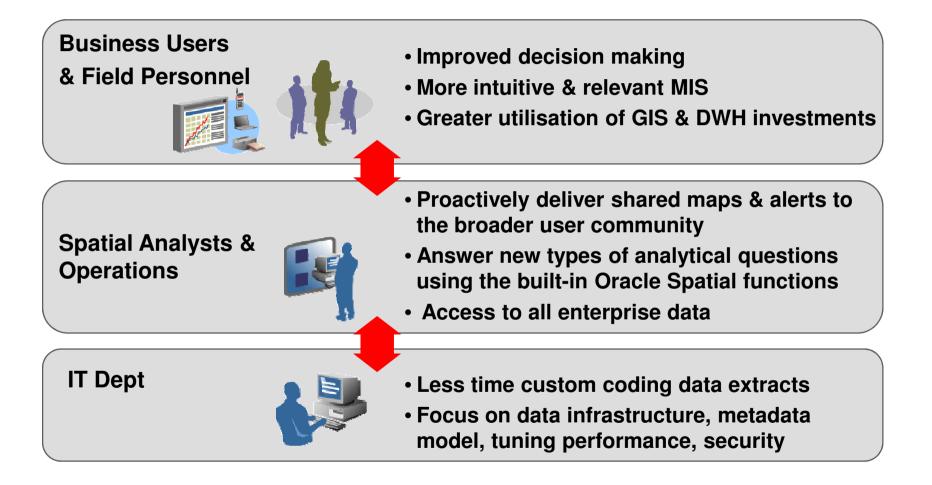
### **The Solution: BI with Spatial Analytics**





# **Spatially-enabled Enterprise BI**

### **Reduce IT backlog while increasing self-sufficiency**









# Public Sector - Agriculture







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- AGREA is a governmental organization in charge of distributing EU funds and economical aid to farmers in the region of Emilia-Romagna.
- AGREA manages the whole process from farmer application to funds distribution.





- How can we speed up controls to decide application eligibility?
- How can we measure the impact EU Policies have on territory?
- Can we better estimate investment risks?
- How to optimize fund distribution?
- Multiple internal data sources for fund application modules, farmer demographics, areas by grape typology.
- Multiple external data sources for weather data, points of interest (eg farm locations, agro-tourism centres).

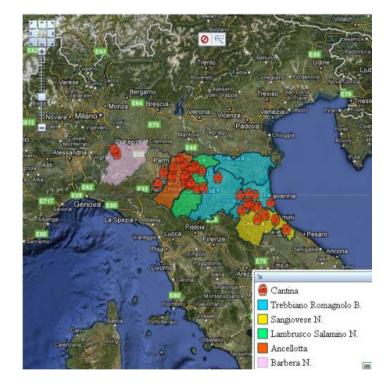








- Integrated system that combines the variety of data sources
- Present information in a unified and trustworthy manner incorporating geographical information
- Create a 360° overview to monitor the business and enable swift decision making
- User self service dashboards with intuitive graphical interface







### Utilities – Water UK WATER CORPORATION



## UK Water Corporation Business Situation



- One of the largest water and waste water services supplier in the UK with over 4 million customers.
- Serving the Eastern region of the UK presents major challenges in Asset Management
  - Over 50,000km of water pipes,
  - 45,000km of sewer pipes,
  - 1500 waste water treatment works (incl 1000 septic tanks)
  - 300 water treatment works
  - + pumping stations, sludge treatment centres, reservoirs.
- Regulators have been treating all UK water companies more rigorously with recent examples of fines in the millions of £s, mostly for misreporting of operational and customer service data



## UK Water Corporation Challenges



- 1. Reduce Operational Expenditure (to free up money to invest in pipeline and treatment works replacements to increase water quality)
- Optimise Capital Expenditure (to make sure they are spending their money on the right parts of the network – i.e. those parts that are contributing to water quality failures and supply outages)
- **3. Improve Customer Service** (to meet aggressive targets set by the Water industry Commissioner to get up to the standards of the English water companies)
- 4. Improve Regulatory Compliance (to meet aggressive targets for improvements in water quality, improvements in health & safety standards and reduce fines imposed by the environmental regulators).





## UK Water Corporation The Solution



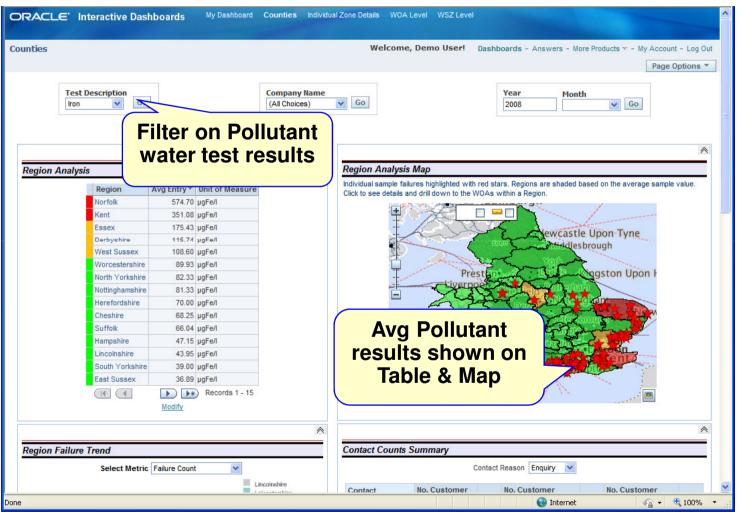
- **Self-service** BI and exception-oriented dashboards with drilldown for causal analysis
- Moving to near real-time business information from historical reporting
- Combine a significant amount of information about assets, customers, telemetry and many related factors (e.g. weather) potentially from multiple sources.
- "I want my team to look for trends, to plan in risk"
- Improved operations and also provides accurate, trusted information back to the regulators to justify performance and aberrations
- Provide **spatial intelligence to manage incidents and plans** for above-ground and below-ground assets.



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## UK Water Corporation Oracle & NAVTEQ / BI & Spatial solution









Public Sector - Employment

# BELGIUM EMPLOYMENT AGENCY



# Demonstrating Customer Transparency

ards

#### **Employment Agency of Belgium**

<b>000</b> Interaction	eve cijfers Crisisbarome	neter Monitor SE iVAR
		Dashb
		Pagina-opt
Ubent hier: iVAR > Startpagina IVAR interactieve Vlaamse arbeidsrekening	Bevolking   Bevolking naar socio-economisc positie	iche   Binnenlandse werkgelegenheid   Jobs   Vacatures   Vestigingen (met perso
De naam van de gemeente wordt weerg aanklikt. Jaar Gewest Provi		le exacte waarde voor de gekozen indicator verschijnt als u de gemeente
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werk.be

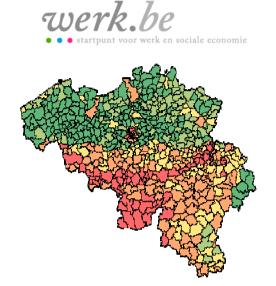
- Public website for key stakeholder metrics
- Total transparency of agency performance and results to citizens
- Interactive, environment including historical trend data

# **Demonstrating Customer Transparency**

**Employment Agency of Belgium** 

# Belgium: Employment statistics interactieve Vlaamse arbeidsrekening (iVAR)

- To access: https://www.werk.be/cijfers
  - Then click;
    - Naar de cijfers
    - Belvolking
    - Startpagina
  - Year = 2007
  - All other filters = off
- Use Google Chrome to do live translation.











# Public Sector - Police HOMELAND SECURITY



# **POLICE – HOMELAND SECURITY**

**Business Situation** 

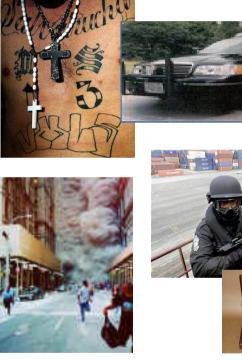




- New York, Madrid, London, Moscow etc
- Law Enforcement is on the Front Lines
- Information Sharing is critical
- Must address crime as the day to day challenge
- Issue is Resources
- Technology becomes the "6<sup>th</sup> Man"

# POLICE – HOMELAND SECURITY Challenges









#### **1.** Reduce Crime and Fear of Crime

- Public Expectations
- Media Scrutiny
- Political Mandate

#### **2.** Prevent Terrorist Acts

- Once in a career problem
- Consequences of failure
- Multi-agency approach
- 3. Accomplish all with limited resources and budget

# **POLICE – HOMELAND SECURITY**

### **The Solution**

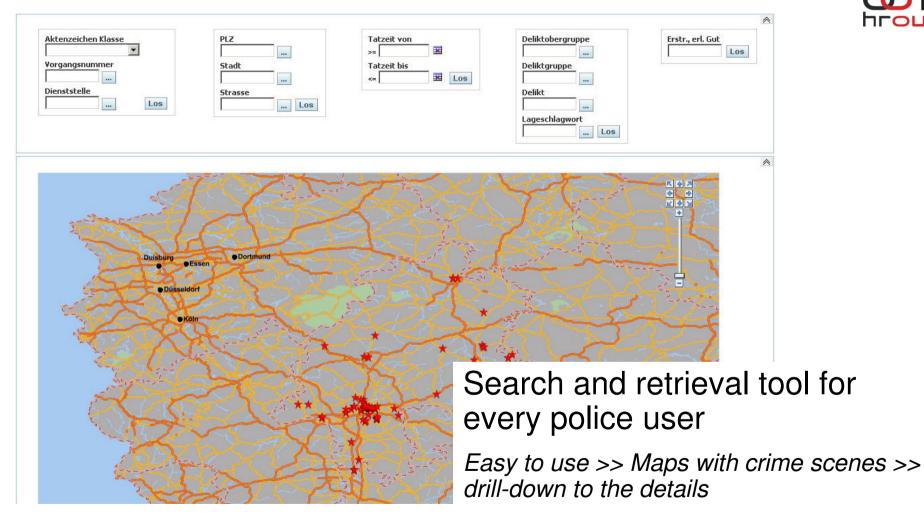






- Standardized crime situation report >> Dashboards
  - Fixed defined formats, fixed times, high quality
  - Deviations (time series) abnormalities
  - Maps (crime scenes, correlations)
- Search and retrieval tool for every police user (thousands)
  - Easy to use
  - High perfomance
  - Fain-grained security rights (protection of personal data)
- Expert analysis tools for power user (hundred) >> Answers

### POLICE – HOMELAND SECURITY The Solution









#### Public Sector – Employment

# **MASSACHUSETTS RECOVERY**



### **Massachusetts Recovery Business Situation**



NXVTEQ

ORACLE



- Massachusetts State Agencies will receive about \$6 Billion in American Recovery and Reinvestment Act (ARRA) funds.
- Massachusetts would like to offer its residents a unique opportunity to find out how and where Recovery Act funding is being utilized.
- Need to develop a system that will allow residents to see how the Recovery Act is impacting their community and how state agencies are meeting their needs.



### Massachusetts Recovery Challenges





- Numerous state agencies with many disparate data sources.
- Thousands of claims to assess.
- Include "STOP Fraud" task force in all levels of the decision and allocation process.
- Making the information, by county, congressional district, or City/Town clear and easy to understand as well as accessible to Massachusett's citizens
- Transparency of process and allocations of funds to public





### Massachusetts Recovery The Solution

Massachusetts Recovery



- Complete information transparency for citizens into the way the Commonwealth of MA has used Recovery Act funding.
- Online mapping capability for anyone to see fund allocations by "Dollars" or Jobs" to understand the impact of ARRA funds in the local communities
- Ability for citizens to drill and report on the information with no training or understanding of underlying systems





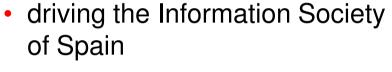


# Public Sector – Industry, Tourism & Trade **RED.ES**

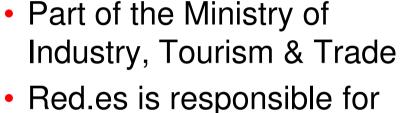








- carrying out projects in line with the strategic priorities set by the State Secretariat
- Telecommunications and the Information Society (SETSI)



**RED.es** 



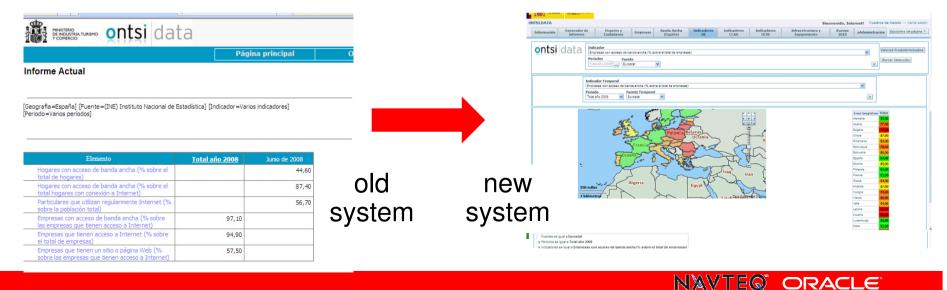




# **RED.es**



- Key business requirement
  - Make use of available ONTSI data
  - Transparency of information to citizens of Spain
  - Integrate reports and maps of Spain, European Union countries and OECD members
  - Move to a single integrated platform to supporting both standard and spatial reporting









## High Technology EXOR CORPORATION





- Global Leader in Infrastructure Asset Management Solutions
- Founded in 1995
- 200 plus client base
- Markets include Federal (National) and local government, utilities, telecoms and construction
- Help maintain and manage road assets valuing in excess of \$750 billion (USD)
- Exor systems manage in excess of 1,000,000 miles of roads
- Offices in UK, USA, Australia and New Zealand





- Capitalize on the multi-industry need for a suite of enhanced management capabilities for linear and other assets, such as highways, railroad tracks, transmission lines, and drainage
- Build a comprehensive, customer-configurable, end-to-end integrated toolset to eliminate restrictions of competitor solutions that require predefined segmentation of linear assets
- Enable customers to reduce infrastructure costs, improve operational efficiencies, and enhance spatial and geographic planning while protecting existing technology investments











- Used Oracle Spatial linear referencing and geocoding features to provide an open, scalable solution that seamlessly integrates linear assets with other geographic information
- Embedded Oracle Business Intelligence Publisher to allow clients to create custom reports from all corporate data sources
- Sold Exor suite to 180 customers and won significant market share in each sector
- Cut a typical customer's annual operating budget by up to 10%
- Managed 1 million miles of roads with an asset value exceeding US\$750 billion in the first 15 years

"With Oracle, we have deployed the world's first end-to-end linear asset management solution built on commercial off- the-shelf software."

- Steve Smith, CEO, Exor Corporation





## High Technology **REDORA**



 Redora develops innovative technology solutions that help Dutch municipalities leverage accurate, timely data to improve citizen services, maximize revenues, and comply with government legislation within tightening public sector budgets.



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### **REDORA** Challenges

- Build an end-to-end automated electronic solution to enable The Hague to comply with 2009 Fixed Penalty Notices Act by enforcing prompt payment of fines for environmental offenses
- Enable mobile enforcement officers to issue on-the-spot digital fines for litter, dog fouling, illegal parking, and other violations
- Deliver a solution that improves the productivity of streetbased officers and back office staff and allows The Hague to track the success rate of fine collections and identify city trouble spots
- Mimimize development cost, ensure scalability for more than 1,500 simultaneous users, and add new applications on demand
- Create a configurable solution that Redora can replicate costeffectively to meet the needs of other Dutch cities and towns







### The Solution = REDLINE

**REDORA** 

- Developed REDLINE Mobiele Zaken, a paper-free solution for recording fixedpenalty offenses, issuing tickets digitally, and processing fines, built on embedded Oracle technology
- **Developed basic model of REDLINE in three months** with four developers and subsequently added more functionality
- Used Oracle Spatial to identify parts of the city where most offenses occur to target resources most effectively
- Embedded Oracle business intelligence tools to provide city officials with prebuilt key performance indicator reports
- Cut time to issue parking fines from five minutes to 30 seconds
- Increased fine collection success rate from 75% to 98.5%

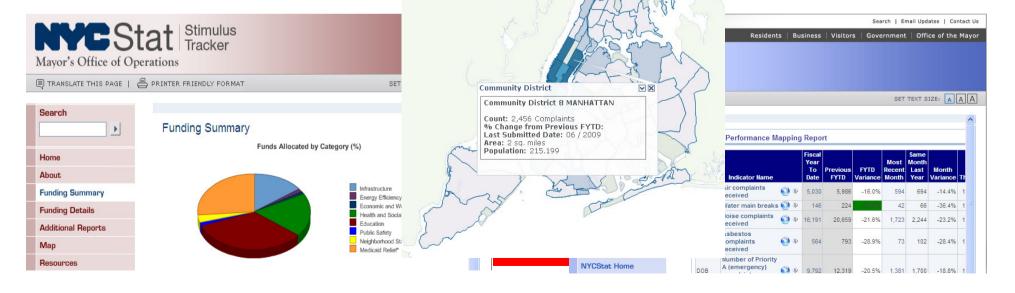
"Oracle's leading edge technology enables us to bring world class civil enforcement capabilities to municipalities in The Netherlands at an unbeatable per-user price."

- Gudron van der Wal, Account Manager, Redora

# Local Gov: New York City

(www.nyc.gov)

- Trasparenza Amministrativa
- Stimulus Tracker: Kpi e report su utilizzo dei fondi federali
- Navigabili sino alla singola scheda di progetto
- CPR Citywide Performance Reporting KPI sul governo della città.
- I valori degli indicatori sono esplosi per competenza territoriale
- navigabili tramite mappe.







# **Ministry of Health in Turkey**

"DSS for National Health"

**Business situation** 

- Vision : "Responsible for all Heathcare operations in Turkey"
- Over 300.000 Employees
- Over 2000 Hospitals

#### Account Situation before OBI

- A disributed BI structure,
- No Corporate standards



Over 20.000 BI users,

10.000 user/day

 "Pervasive usage of standardized KPIs across the whole organization enables benchmarking of hospitals and geographical areas"

# Human Resources Management System

rkiye Geneli Personel	İstatistikleri					Hoş (	Geldiniz, A	ile Hekimliği	Yetkilisi!	Kumanda Tab	oloları - Yanıtlar -	Diğer Ürünler 🔻	- Hesabim - Oturi	imu Kap
Aktif Çalışan Uzman/Pratisyen/Diş Tabibi Durumu	Aktif Çalışan Uzman/Pratisyen Durumu (Diğer Paydaşlar Dahil)	100.000 Kişiye Düşen Hekim Sayısı	Personel Arama	100.000 Kişiye Düşen Hekim Sayısı (Projeksiyon Dahil)	Branşlara Göre Aktif Çalışan Uzmanı Olmayan İller	Branşlara Göre Kadrolu Uzmanı Olmayan İller	Kadrolu Çalışan Türkiye Geneli	Aktif Çalışmayan Türkiye Geneli	Aktif Çalışan Türkiye Geneli	Kadrolu Personel Sayısına Göre Tarihler Arası Karşılaştırma	Belli Bir Ünvan/Branş İçin Türkiye Sıralaması	Türkiye Genelinde Aktif Çalışan Hekimlerin Tam/Yarım Zamanlı Çalışma Durumları	Ünvanlar Bazında Personel Başına Düşen Nüfus - Tarihler Arası Karşılaştırma	Ti H Süre 6. H Karş

Human Resources Management System

03/05/2010 🔛 Git

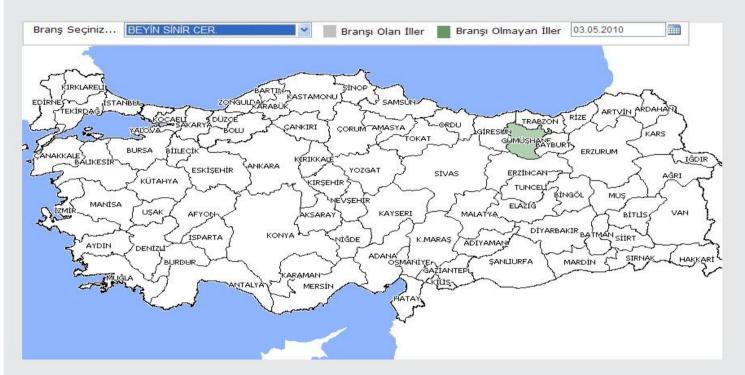
Distribution of medical doctors in Turkey based on the cities and regions.

Allocations and distributions are revised based on Bl reports



# Human Resources Management System



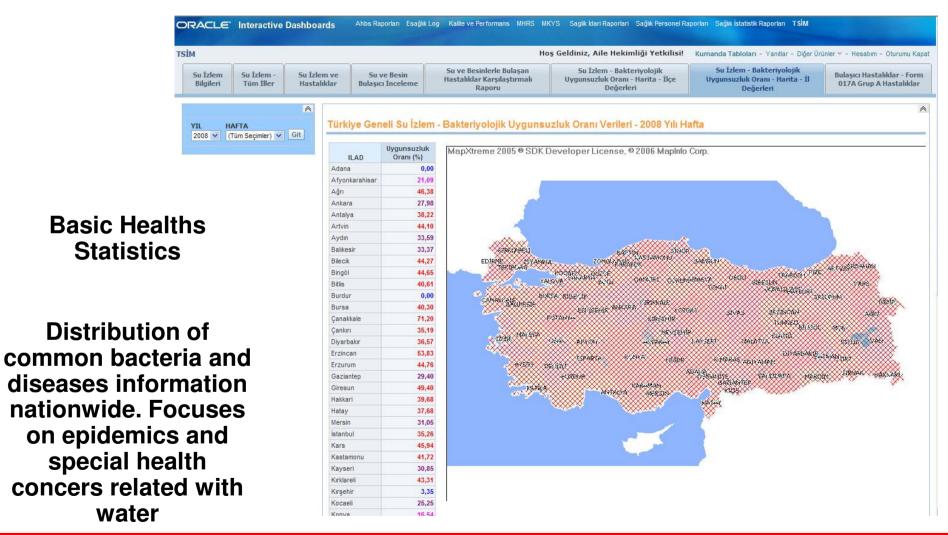


Human Resources Management System

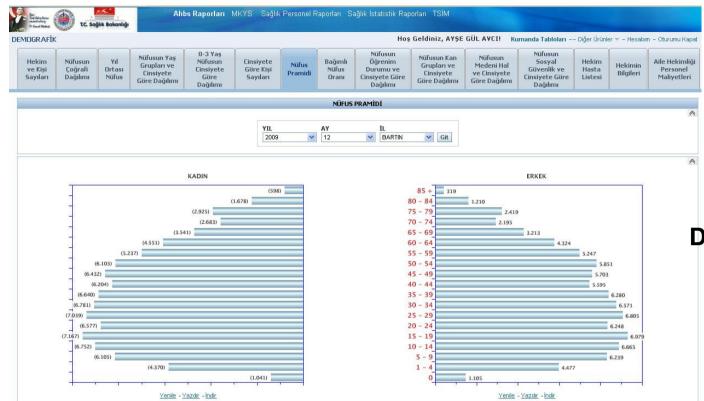
Distribution of medical experts in Turkey based on the cities and regions, based their expertise and demand.

# **Basic Health Statistics System**





# National Family Doctors Information System



National Family Doctors Information System

Allocations and reports are made based on OIBEE system for over 5millions patients. Over 10K of doctors enter the system and follow their own patients.

# National Family Doctors Information System

FORM18A			yene Yapılmayanların Cinsiyet Yaş Gruplarına Göre Dağılımı	Muay İşlen			Muaye ve	ene Sa Cinsiy Dağ	ete		aş		yene ileri	H			taların Sayıları		M	Hekir luaye Sayıla	ne		üvenlik		Jmuna	n Sosya a Göre
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	01 Varisella (su çiçeği)	B01.9	Varisella, komplikasyonsuz			2	9	5	1	4	1	8	1	1	3	1		9	2 :	5 4	3		10	7	3	8
801		B01.8	Varisella, diğer komplikasyonlarla birlikte																1						2	
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D56	5 Talasemiler	D56.9	Talasemi, tanımlanmamış	1	1													1								
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D58	Kalıtsal diğer hemolitik anem	iler D58.2	Hemoglobinopatiler, diğer											1												
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		E03.3	Hipotiroidizm, enfeksiyon sonrası					1		1			1			1		3						1		
		E03.2	Hipotiroidizm, ilaçlara ve diğer ekso maddelere bağlı gelişen	ien				1	2		1	2			1				1	1	1			1		
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E04	Toksik olmayan guatr, diğer	E04.9	Toksik olmayan guatr, tanımlanmam	iş 21	1 :	25	21	15	12	16	15	19	19	11	17	22	1	5 3	23 11	8 21	23		25	20	8	34
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		E05.9	Tirotoksikoz tapımlapmamıs		6	9	15		13	12	8	17	8	4	3	6	1		2	4 8	5		14	-	2	7

National Family Doctors Information System

Diagnosis and statistics of major diseases nationwide, and their distributions. Special focus on Cancer related diseases.

# **Centralized Scheduling System**



RANDEVU DOLULUK RAPORLARI	Hoş Geldiniz, Aile Hekimliği Yetkilisi! Kumanda Tabloları - Y	antlar - Diğer Ürünler 🕆 - Hesabim - Oturumu Kapat
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		8
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	TRS TOPLAM RANDEVU SAYISI RDO RANDEVU DOLULUK ORANI	
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	4611,00 3332,00 1279,00 0,00 72,26 AMASYA SABUNCUOĞLU ŞEREFETTİN DEVLET HASTANESİ	
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		Hospital rendes-vou
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	HASTANESI HASTANESI	and patients. Follow
		up and re-

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secheduling is made based on OBIEE

**Reports.** 

# Centralized Inventory Management System

