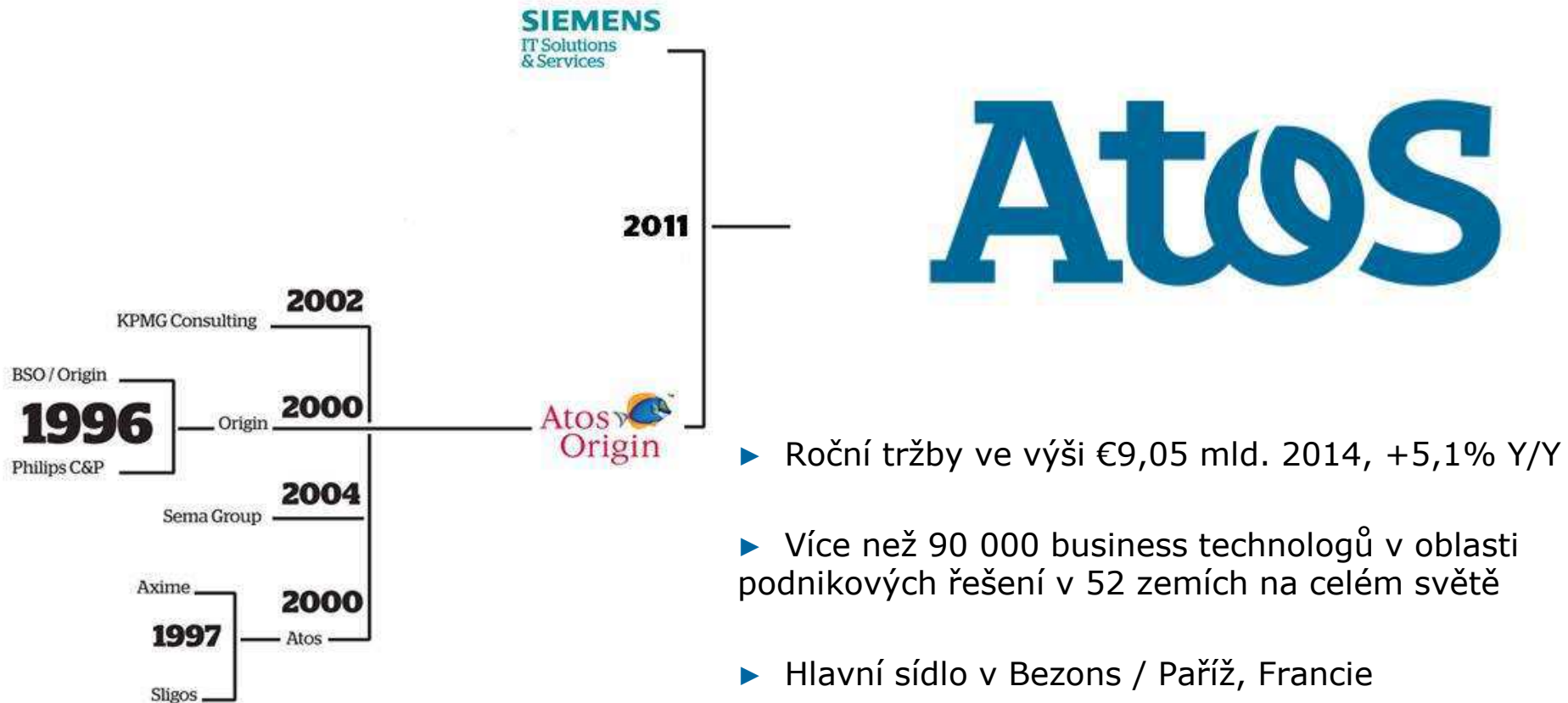




# Strategy to Performance

**Atos Smart City**  
.. společnost řízená IT

**Oldřich Kalina**  
**ATOS IT Solutions and Services, s.r.o.**



## Současná situace?

Digitalizace nás všechny ovlivňuje více než jsme si ochotni připustit. Má na nás dokonce větší vliv než samotný Internet. Nezůstat pozadu v tomto věku digitální ekonomie, podniky a vláda musí intenzivně začít pracovat ihned, aby v brzké budoucnosti nebyly překvapeni z toho co se stalo jejich nečinností.

“Do roku 2018, náš svět bude mnohem více propojen, je předpoklad 4.5 mld. chytrých telefonů, 2.5 mld. uživatelů sociálních sítí a více než 25 mld. propojených objektů.”

**Digitální síla Businessu.**



# Digitální Transformace

MyCity od Atosu

...stává se ústředním tématem diskusí změny měst v současné technologicky složité době...

- ✓ další krok k větší efektivnosti procesů měst
- ✓ šetří peníze
- ✓ mění navyklé řady občanů měst
- ✓ inspiruje k inovacím
- ✓ podporuje k vyšším výkonům
- ✓ zvyšuje konkurenceschopnost

**Snažíme se vytvářet město, které je OPĚT zaměřeno na občana.**





## Vytváříme město podle současných potřeb

- ▶ Velká města jsou dnes extrémně složitá na řízení
- ▶ Populace měst roste – zvyšování efektivity fungování
- ▶ Vedení měst musí přicházet s novými nápady řízení
- ▶ Společnost Atos nabízí integrovaná řešení přinášející pomoc
  - městu
  - občanům



# Transformace služeb občanům

15/04/2015

## Od nástěnky ke spolupráci

- ▶ Občané chtějí být více zapojeni do rozhodování
- ▶ Zapojený občan - vyšší efektivnost
- ▶ Atos je expertem na moderní technologie umožňující vyšší zapojení občanů

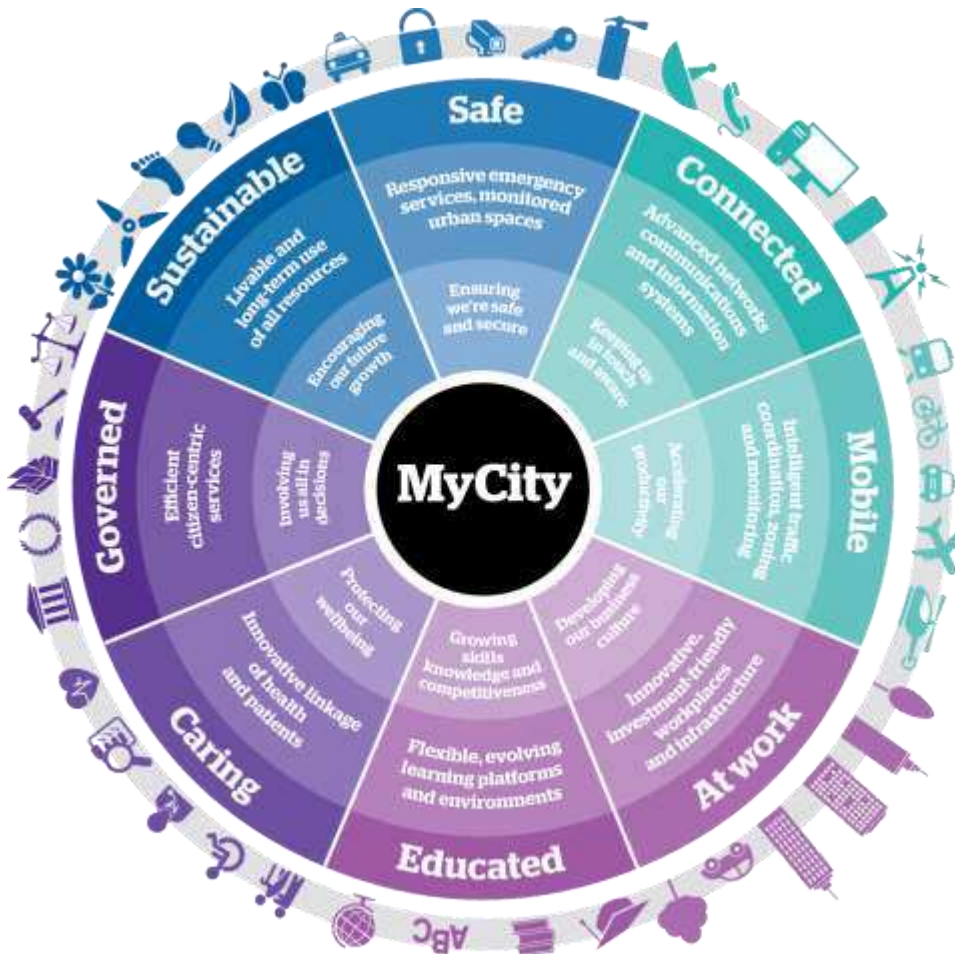




# MyCity, krok za krokem

Atos

15/04/2015



## ► Pohlížením na město jako celek nám pomáhá:

- Identifikovat problémy
- Propojovat jednotlivé úlohy (a řídicí části)
- Nastavovat priority
- Připravovat řešení (dlouhodobá a krátkodobá)
- Přicházet s inovacemi

## ► Vytváříme město, které je

- Bezpečné
- Propojené
- Mobilní
- Kde se dobře pracuje
- Vzdělané
- Které se stará
- Dobře řízené
- Udržitelné

# MyCity od společnosti Atos

## Portfolio produktů

15/04/2015

| Governed                  | Connected      | Mobile              | Educated                  | Caring                        | At work                    | Safe                       | Sustainable                             |
|---------------------------|----------------|---------------------|---------------------------|-------------------------------|----------------------------|----------------------------|---|
| Social Security           | e-Services     | (m)Parking          | Digital learning platform | e-Healthcare                  | Community Engagement model | Control & Command          | Data Center Solutions                   |
| City Cards                | Tax            | Journey Management  | Edu - media               | Patient record management     | Innovation@work            | Courts                     | Workplace solutions                     |
| City Cockpit              | Smart Mobility | e-Ticketing         | DCM libraries             | e-Card                        |                            | Traffic Offense Management | Digital Archiving                       |
| Big Data / Data analytics | Collaboration  | Tolling             | ENT                       | Communication / Collaboration |                            | Biometric Solutions        | Low emission zoning                     |
| City Cloud                |                | i-Cargo             |                           | Social Benefit payment cards  |                            | e-ID                       | Smart Grid                              |
| City ERP                  |                | Traffic Forecasting |                           |                               |                            | RFID triage                | e-Vehicles                              |
| iBabs                     |                |                     |                           |                               |                            |                            | Calculation model for Energy Transition |

|                 |                                  |                    |                      |     |     |                                    |                                |
|-----------------|----------------------------------|--------------------|----------------------|-----|-----|------------------------------------|--------------------------------|
| Cloud Solutions | Government Business IT Solutions |                    |                      |     | ERP | Application Management and Hosting | Test and Acceptance Management |
|                 | Secure Archive                   | Adaptive Workplace | Information Security | ECM |     |                                    |                                |



# Příklady realizací Atos MyCity ve světě

# MyCity from Atos

## City Cockpit

15/04/2015



**bism@rt**  
Power your business

# bigov

## Cities specialized Business Intelligence solution



**bigov Cockpit**  
Scorecard specialized in Municipalities



**bigov OpenData**  
Open data can be reused to generate services and to deliver a better service to the public



**bigov Transparency**  
Budget tracking Observatory & Better City Indicators



## bigov Cockpit

- Economy & Finances
- Records & Procedures
- Population, territory, economic activity
- Taxes & Revenues
- Contract
- Territory & Landscape
- Citizen Service
- Human Resources
- Facility Management
- Inventory
- Social care





## bigov OpenData

Barcelona City Council has deployed a Bismart solution which transforms certain information, previously only accessible at a corporative level, into open data information. This means it is open to the public and can be turned it into an asset for new business creation and promotion

- Economic and innovation promotion
- Increased transparency
- Universal access to data
- Ordering and structuring the Administration information



Case Study Barcelona Open Data: <http://opendata.bcn.cat/opendata/en>





## bigov Transparency

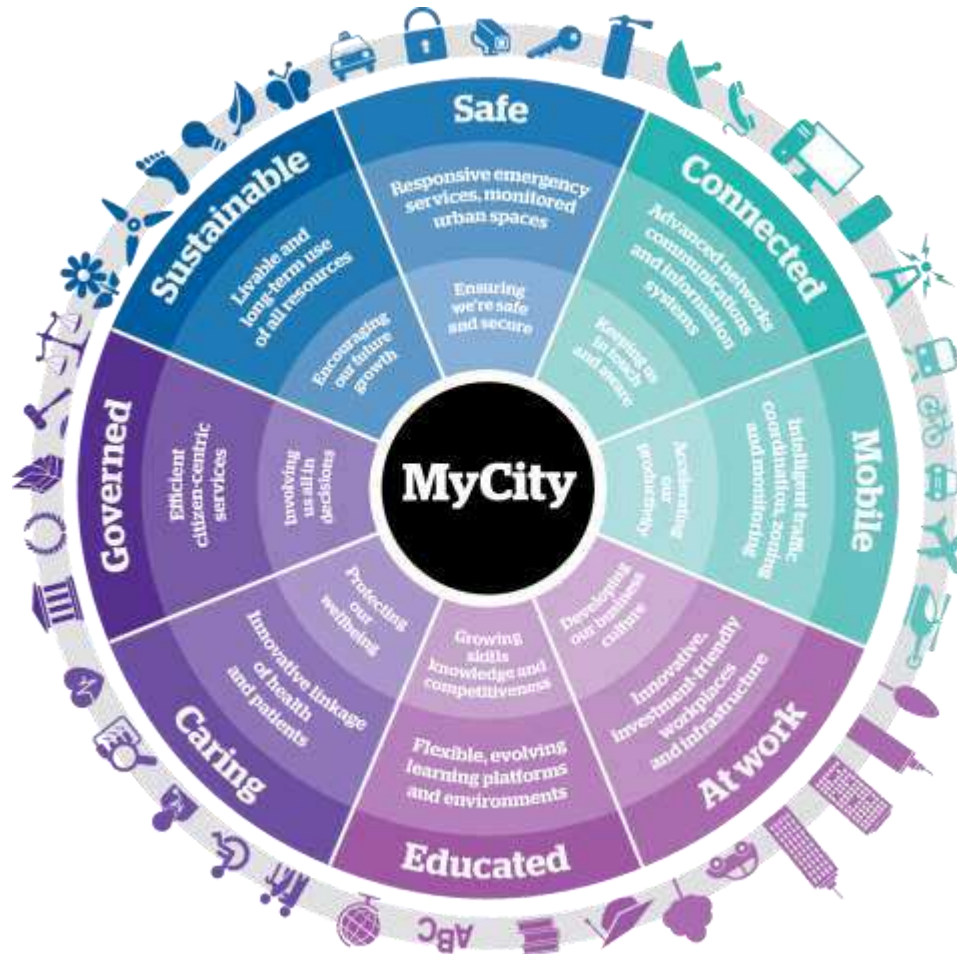
Government Insight and Accountability. Clarity in government plan implementation reusing information and becoming a more open and transparent government

Knowing at all times exactly

- WHAT the City Council is doing with public money
- HOW it manages the budget
- WHICH companies it is contracting
- HOW MUCH elected officials earn
- and various other financial data of interest



Case Study Terrassa Transparency: <http://transparencia.terrassa.cat>



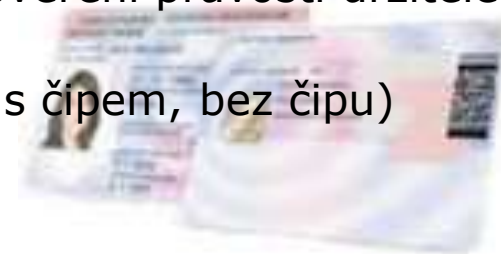
# Elektronické občanské průkazy v ČR

od 1. ledna 2012 podle zákona č. 328/199 Sb.

15/04/2015



- ▶ **Rozšíření systému pro biometrické pasy a povolení k pobytu**
  - jednotný systém pro všechny elektronické doklady
  - využití stávající infrastruktury
  - využití centrálních evidencí MV
  - univerzálnost přepážek obecních úřadů
  
- ▶ **Možná vstupenka pro přístup občana k eGovernmentu** a ISZR od 1. července 2012
  
- ▶ **Různé úrovně autentizace pro různé agendy:**
  - ▶ Standardní základní čitelné tištěné údaje – přístupné každému
  - ▶ MRZ kód a/nebo 2D kód – přístupné pro načtení do čteček, automatů,...
  - ▶ Číslo eOP + zadání BOKu (PINu občana) – silnější ověření pravosti držitele (prokázání znalosti)
    - ▶ dostupné zdarma pro každou OP (staré, nové, s čipem, bez čipu)
  - ▶ Osobní certifikát na čipu – silná autentizace



# Smart Mobility Solutions, Barcelona

Enabling citizens to access services more easily through mobile platforms



## Business challenges

- ▶ Achieve cost savings, efficiency and operational improvements
- ▶ Drive new revenue opportunities
- ▶ Respond more quickly to market demands

## Solutions

- ▶ Atos Enterprise Mobility for employees delivers:
  - Capabilities and experience
  - MEAP / Mobile Middleware for integration with existing systems
  - Apps development and testing
  - Mobile Apps Management: Atos MyMarket
  - Mobile Device Management

## Benefits

- ▶ Greater employee productivity through mobile flexibility
- ▶ More efficient operation with Executive Dashboard to monitor progress
- ▶ Opportunities to support new digital revenue streams
- ▶ Faster delivery of customer and citizen services
- ▶ Improved brand image with potential hires and the markets.

## Cities these solutions are live in:

- ▶ **Barcelona**

BACK



# London 2012 Olympic Games, UK

15/04/2015

Security and flexibility through digital tools, data and identity management



*High performance security for a high profile global event*

*250,000 access accreditations*

*Secure and flawless results service*

*Hundreds of thousands of potential security risks monitored every day*

*24/7 operational, security trained Olympic IT team.*

*"With the support of Atos, the London 2012 Olympic Games IT system was successfully designed, built and operated so that the competition results could be viewed and read by more people than ever before."*

*Jacques Rogge, President of the International Olympic Committee*

## Business challenge

- ▶ Achieve highest levels of IT and access security under the world's gaze
- ▶ Deliver secure and flawless services over the Games network
- ▶ Combat cyber and identity threats

## Solutions

- ▶ Security is central to Atos' role as official Worldwide IT Partner of the International Olympic Committee and the International Paralympic Committee
- ▶ Atos monitored hundreds of thousands of IT security events each day, instantly sifting benign anomalies from potential real threats
- ▶ IT Security Architecture separates the Games network and the Internet
- ▶ Proven security mechanisms were implemented, such as anti-virus software, port security, and the Intrusion Detection System
- ▶ All Olympic IT team members were trained in security policies and procedures, and the team is operational 24/7 to respond to incidents

## Benefits

- ▶ More than 250,000 secure accreditations for the Olympic family
- ▶ 30 percent more competition data processed for media, without a hitch
- ▶ Real-time results and data from all 26 Olympic sports delivered securely to worldwide broadcasters.

[BACK](#)

# Automatic fare collection system

Smoother, easier journeys for passengers across all transport types



## Business challenge

- ▶ Enable seamless cooperation between passenger transport operators
- ▶ Improve fare collection and management back office processes
- ▶ Make ticketing more convenient for passengers
- ▶ Support multimodal operations and multi-operator business models

## Solutions

- ▶ Turnkey contactless card-based automatic fare collection for buses and metro
- ▶ Turnkey back office solution, including clearing house for contactless cards
- ▶ Integration of Fleet Management application
- ▶ Clearing house operation, including a disaster recovery center

## Benefits

- ▶ Multimodal fare system simplifies cooperation and revenue split between transport companies
- ▶ Transparent cash flow helps determine ticket tariffs
- ▶ Contactless cards are attractive ticket options for passengers
- ▶ Centralized maintenance processes make operations more cost efficient.

BACK

# German Federal Employment Agency

Digital dashboarding and trend analysis to identify opportunities

15/04/2015



## Bundesagentur für Arbeit

*The Federal Employment Agency (Bundesagentur für Arbeit - BA) is the largest provider of labour market services in Germany.*

*It has a network of more than 700 agencies and branch offices nationwide. Its most important tasks are job and training placement, career counselling and providing benefits replacing employment income such as unemployment benefit and insolvency payments.*

*The Family Benefits Office (Familienkasse), which provides child benefit, is also part of the Federal Employment Agency.*

### Business challenges

- ▶ Consolidate data from over 80 internal and external sources
- ▶ Process 20 terabytes of data for direct access
- ▶ Compile and provide hundreds of KPIs monthly
- ▶ Design and implement executive information system for business performance management

### Solution

- ▶ Solution based on tool suites from Business Objects, MicroStrategy and Microsoft
- ▶ Monthly provisioning of data to more than 14,000 users
- ▶ Consulting for business planning and target agreement process for KPIs
- ▶ Concept and integration of a solution for the annual budgeting process
- ▶ Innovative executive information cockpit

### Benefits

- ▶ Improvements of reporting and analysis quality
- ▶ Business impact and costs of business programs and labor market policy measures become traceable
- ▶ Provision of management instruments for the governance of local units and for outcome-oriented controlling based on biographical customer data
- ▶ Improving effectiveness and efficiency
- ▶ Cost reduction

BACK

# Atos SK e-Learning history

15/04/2015

- ▶ **2008 – 2009** Atos Slovakia delivered infrastructure for Data center of Ministry of Education. This delivery included also some application parts, which were base for next cooperation in the area of digital learning.



Planéta vedomostí®  
DIGITÁLNE KURIKULUM

- ▶ **2012** First e-Learning project – **Planet of knowledge** consisting from delivery of the **Learning Management System Ypeach** developed by Agemsoft and delivery of **digital learning content for primary and secondary schools** for educational subjects: Mathematics, Physics, Biology, Chemistry, Nature Science. Financial resource: SK State budget



- ▶ **2013** LMS and Digital learning objects for **SIOV (SIoVE State iInstitute of Vocational Education)** Detailed information is main topic of this presentation). Financial resource : EU funds



# eCard Austria

15/04/2015

Enabling access of healthcare resources through a single digital solution



## Business challenge

- ▶ Improve user entitlement management
- ▶ Make it possible to share rich information securely, to improve patient care
- ▶ Enhance the efficiency of commissioning and payments

## Solutions

- ▶ Atos smart card solution is available to all Austrian citizens
- ▶ Insured citizens have instant access to all key healthcare resources
- ▶ 12,000 doctors, many thousands of dentists, opticians and pharmacies and out-patient centers also have access

## Benefits

- ▶ The solution is comprehensive and successful
- ▶ It provides support to healthcare professionals as well as citizens.

[BACK](#)

# City Cockpit

A simple digital tool to understand city service usage



KPI reporting  
Transparency reporting  
OpenData support

To be updated with Bismart info



BACK

# City of Glasgow

Creating Low Emissions Zones to drive more sustainable city center



*EU and Kyoto clean air directives leave no room for complacency*

*Cities cause 80%+ of CO2 emissions worldwide.*

*Particulate matter leads to an estimated 348,000 premature deaths a year in Europe.*

*National governments, cities and towns can incur heavy financial penalties from the European Court of Justice if they are not seen to improve air quality*

*Atos delivers LEZ as a service to provide a solution. LEZ needs no IT infrastructure to be purchased – the solution is entirely hosted and operated by Atos.*

*All you need is a web-browser and an Internet connection.*

## Business challenge

- ▶ EU and Kyoto clean air directives demand new levels of emission standards
- ▶ Cities like Glasgow account for over 80% of CO2 emissions worldwide so are under close scrutiny
- ▶ They have to improve a record where major air pollutants from vehicle emissions lead to some 348,000 premature deaths annually in Europe

## Solutions

- ▶ Atos Low Emission Zone (LEZ) is a fully hosted and proven traffic pollution management solution
- ▶ Highly scalable and cost effective, it uses visually unobtrusive roadside equipment to detect vehicle license plates, and monitors air quality
- ▶ Communication to the hosted enforcement and back-office system is via highly secure and encrypted techniques
- ▶ Web portals allow customer access to key performance data

## Benefits

- ▶ ANPR cameras are quickly and easily installed on existing traffic signals
- ▶ 3G connectivity with data center
- ▶ Cloud-based IT infrastructure to support operations 24/7
- ▶ Secure hosting in Tier-III + data center.

[BACK](#)

# Austrian State Archives

Digital Archiving to enable key documents to be more sustainably stored



## Business challenge

- ▶ Digitise documents contained in one of the world's most important archives, containing invaluable European cultural assets
- ▶ Ensure the content is safe and the project is cost effective
- ▶ Complete the project quickly to minimize disrupted access to documents

## Solutions

- ▶ Atos provides Java-like SDB software , based on a solution originally developed by NASA Open Archival Information System (OAIS) reference model
- ▶ Digitization carried out at Atos's high-security data center in Vienna, with a back up data center
- ▶ Atos partners with UK archive specialists, Tessella

## Benefits

- ▶ The project was completed successfully within the 12 months committed, on budget
- ▶ Content safety requirements were met throughout and not a single document was lost.

BACK



# Od vašeho města k... MyCity

15/04/2015

- ▶ Budoucnost světa je o městech a občanech měst
- ▶ Města jsou více závislá na občanech při vytváření příležitostí , podpory a fungování
- ▶ To znamená větší efektivnost a propojenost
- ▶ Integrovaná digitální služba nám umožní uzavřít kruh – dodat efektivní službu a zapojit občany
- ▶ Nehovořme o městě
- ▶ Hovořme o mém městě - 'MyCity'



