AUSTRIAN TOLL SYSTEM

Andreas Fromm
Japan Road Congress
Tokyo 28th October 2015
Toll Systems in Austria

- ASFINAG Austrian Motorway and Expressway Company
- Toll sticker
- Special toll – toll stations
- Go.Toll – electronic toll collection for heavy goods vehicles
Toll Systems in Austria

- ASFINAG Austrian Motorway and Expressway Company
- Toll sticker
- Special toll – toll stations
- Go.Toll – electronic toll collection for heavy goods vehicles
Austria

Capital: Vienna (1.7 Mio.)
Area: 84,000 m²
Population: 8.4 Mio.
Gross domestic product per head : 35,710 EUR (2011)
Toll road network in Austria
ASFINAG – key figures

- Network length in operation: **2.183 km, 12.584 lane km**
- Employees: **2,691**
- Tunnels: **153**
- Tunnel length: **361 km**
- Bridges: **5,194**
- Bridges length: **340 km**
The ASFINAG Group

Organization chart

ASFINAG Holding
Autobahnen- und Schnellstraßen-Finanzierungs-Aktiengesellschaft
(Motorway and Expressway Financing plc)

Construction
ASFINAG Bau Management GmbH

Operation
ASFINAG Service GmbH
ASFINAG Alpenstraßen GmbH

Tolling
ASFINAG Maut Service GmbH

Consulting
ASFINAG Commercial Services GmbH

International Tollservice
ASFINAG European Toll Services GmbH

public limited company
100 % owned by the republic of Austria
The ASFINAG Mission
Reliability all the Way

ASFINAG is an efficiently operating **user-financed** builder and operator of motorways and expressways.

We provide a **road network** that meets our customers’ requirements, is **well-serviced** and developed with a special focus on road safety and **optimal availability** as well as user-friendly tolling systems.

All our activities are directed towards fulfilling our **economic, environmental and social responsibilities** whilst strengthening Austria’s position as a business location.
## Toll System in Austria:
**Overview and Revenue 2014**

<table>
<thead>
<tr>
<th>Vehicles</th>
<th>Toll Sticker</th>
<th>Toll Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vehicles &lt; 3.5 t GVW</strong></td>
<td><em><em>EUR 428 million</em>)</em>*</td>
<td><em><em>EUR 155 million</em>)</em>*</td>
</tr>
<tr>
<td><strong>Vehicles &gt; 3.5 t GVW</strong></td>
<td><em><em>EUR 1,242 million</em>)</em>*</td>
<td></td>
</tr>
</tbody>
</table>

*) net proceeds in 2014, rounded
ASFINAG-Konzern: Expenses- Revenues
Balance 2014

Revenues and new debt: 2,035 Mio. EUR
Infrastructure investments: 935 Mio. EUR
Maintenance and administration: 365 Mio. EUR
Interest: 360 Mio. EUR
Taxes and dividends: 375 Mio. EUR
ASFINAG: construction program

Midterm plan

Financed only by toll revenues, no state grant!
Toll systems in Austria

- ASFINAG Austrian Motorway and Expressway Company
- Toll sticker
- Special toll – toll stations
- Go.Toll – electronic toll collection for heavy goods vehicles
Toll sticker - time-related toll
for vehicles up to 3.5t gross weight

<table>
<thead>
<tr>
<th></th>
<th>10-day-toll sticker</th>
<th>2-month-toll sticker</th>
<th>One-year toll sticker</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bikes</strong></td>
<td>EUR 5.00</td>
<td>EUR 12.70</td>
<td>EUR 33.60</td>
</tr>
<tr>
<td><strong>Cars</strong></td>
<td>EUR 8.70</td>
<td>EUR 25.30</td>
<td>EUR 84.40</td>
</tr>
<tr>
<td>(and vehicles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with a maximum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>permissible</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>gross weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>of up to 3.5t</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

rates in EUR gross incl. 20% VAT; valid since December 1, 2014
Toll sticker - time-related toll
for vehicles up to 3.5t gross weight *)

Units sold: 24.3 million
Total revenue: € 428 million
System costs: € 28.3 million
Cost vs. revenue: 6.6%
Number of points of sale: ~ 6,000 (in Austria & abroad)

*) Figures 2014, rounded
Toll sticker layout from 2013 to 2015

“raspberry”

“lime”

“azure”
Toll systems in Austria

- ASFINAG Austrian Motorway and Expressway Company
- Toll road network
- Toll sticker
- Special toll – toll stations
- Go.Toll – electronic toll collection for heavy goods vehicles
Special toll - Toll stations
for vehicles up to 3.5t gross weight
Special toll - Toll stations
for vehicles up to 3.5t gross weight

A 13 Schönberg toll station, 1968

A 13 Schönberg toll station, 2013
Distance-based toll - special toll routes)
for vehicles up to 3.5t gross weight *)

Number of vehicles cleared: 37.9 million
Total revenue: € 155 million
System costs: € 13.5 million
Cost vs. revenue: 8.7%

Number of video toll cards sold:
in 2014: 1,574,409 pieces
in 2013: 1,488,557 pieces
in 2012: 1,311,123 pieces
in 2011: 1,208,573 pieces

*) Figures for 2014, rounded
Toll systems in Austria

- ASFINAG Austrian Motorway and Expressway Company
- Toll road network
- Toll sticker
- Special toll – toll stations
- Go.Toll – electronic toll collection for heavy goods vehicles
Distance-based toll
for vehicles over 3.5t gross weight
Toll rates valid from January 2015

<table>
<thead>
<tr>
<th>Rate</th>
<th>Category 2 (2 axles)</th>
<th>Category 3 (3 axles)</th>
<th>Category 4+ (4 and more axles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO emission category EU VI</td>
<td>0.156</td>
<td>0.2184</td>
<td>0.3276</td>
</tr>
<tr>
<td>EURO emission category EU EEV</td>
<td>0.170</td>
<td>0.2380</td>
<td>0.3570</td>
</tr>
<tr>
<td>EURO emission category EU IV and V</td>
<td>0.188</td>
<td>0.2632</td>
<td>0.3948</td>
</tr>
<tr>
<td>EURO emission category EU 0 to III</td>
<td>0.211</td>
<td>0.2954</td>
<td>0.4431</td>
</tr>
</tbody>
</table>
Distance-based toll
for vehicles over 3.5t gross vehicle weight *)

Number of toll transactions: 679.9 million
Total revenue: € 1,242 million
System costs: € 54.5 million
Cost vs. revenue: 4.4%

*) Figures 2014, rounded
The major components of the toll system

- Toll gantries
- Central System
- Enforcement gantries
- Enforcement
- Call Center
- Points of sale
- Mobile enforcement
- GO-Box
Toll road network → divided into individual toll sections

Toll is collected separately for each section

In each section there is a toll gantry with antennas

Prerequisite for proper toll collection: GO-Box

When vehicles pass underneath a gantry, the GO-Box “communicates” with micro-wave antennas
Road-side infrastructure – Toll collection stations
GO-Box (on-board unit)

- € 5.00 processing fee (once per licence plate number)
- Post-Pay or Pre-Pay procedure
- 3 categories (number of axles) can be set
- Easy self-installation (velcro tape)

Personalized in the GO box:

- Licence plate number
- Basic category (axles)
- Vehicle type (bus/truck)
- Type of payment procedure
- Pre-Pay credit
- Environmental category

Point of sale
Key figures

• Kilometric performance:
  • 2014 total: 3.27 billion km
  • 2013 total: 3.18 billion km
  • 2012 total: 3.12 billion km
  • 2011 total: 3.14 billion km
  • 2010 total: 3.03 billion km
  • 2009 total: 2.83 billion km
  • 2008 total: 3.25 billion km
  • 2007 total: 3.26 billion km

• GO-Boxes (existing contracts): around 895,500*

• GO-Boxes actually used: around 575,000* (~ 64.2 %)

• Capture quota: around 99.7 %

• Toll dodging rate less than 1.0 %

*) figures as of March, 2015
Future perspective of the electronic toll collection for heavy goods vehicles

• System update is necessary by the end of 2017. Contract with toll hardware and software-providers expires 2017

• Investigation and comparison of GNSS and DSRC Systems
  • GNSS…Global Navigation Satellite System
  • DSRC…Dedicated Short-Range Communication

• Decision to upgrade the existing DSRC System in summer 2014

• Today ASFINAG is working on the tenders for the new System
EETS: European Electronic Toll Service
The Need for Change

Transport Poland – Italy:
• 5 Toll Charger
• 5 On Bord Units (= OBU)
• 5 Registrations
• 5 Contracts
• 5 Terms of use

EETS for the customer =
• 1 On Board Unit
• 1 Registration
• 1 Contract
• Comprehensive terms of use
• 1 Invoice
• 1 Contact
EETS-Model: From a Toll Charger Perspective (ASFINAG)

- **Tasks ASFINAG today:**
  - Distribution OBU
  - Calculation Toll
  - Invoicing
  - Customer Service
  - Enforcement

- **Tasks ASFINAG for GO-Maut:**
  - as before

- **Tasks EETS-Provider:**
  - Distribution OBU
  - Invoicing
  - Customer Service

- **ASFINAG in EETS:**
  - Calculation Toll
  - Enforcement