



**TOLL COLLECT**  
*service on the road*

# THE INVISIBLE TOLL SYSTEM



# Show case Germany Toll Collect: Leading-edge technology has proven value



The German Motorway Toll Act for Heavy Commercial Trucks called for a system that...

- Recognises a defined chargeable road network and collects the charges
- Takes into account emission class as well as number of axles
- Is a “free-flow-system” - no need for toll gates or other roadside infrastructure
- Provides both automatic and manual booking methods
- Fulfils technical preconditions of interoperability with other road charging systems
- Is highly flexible:
  - ▶ Network of chargeable roads is expandable
  - ▶ Additional charge rate categories can easily be added
  - ▶ Selectable tariff parameters required, such as time or region based charging
- And achieves highest sustained recording quota ever!

**2005-01-01 – 2006-10-01**

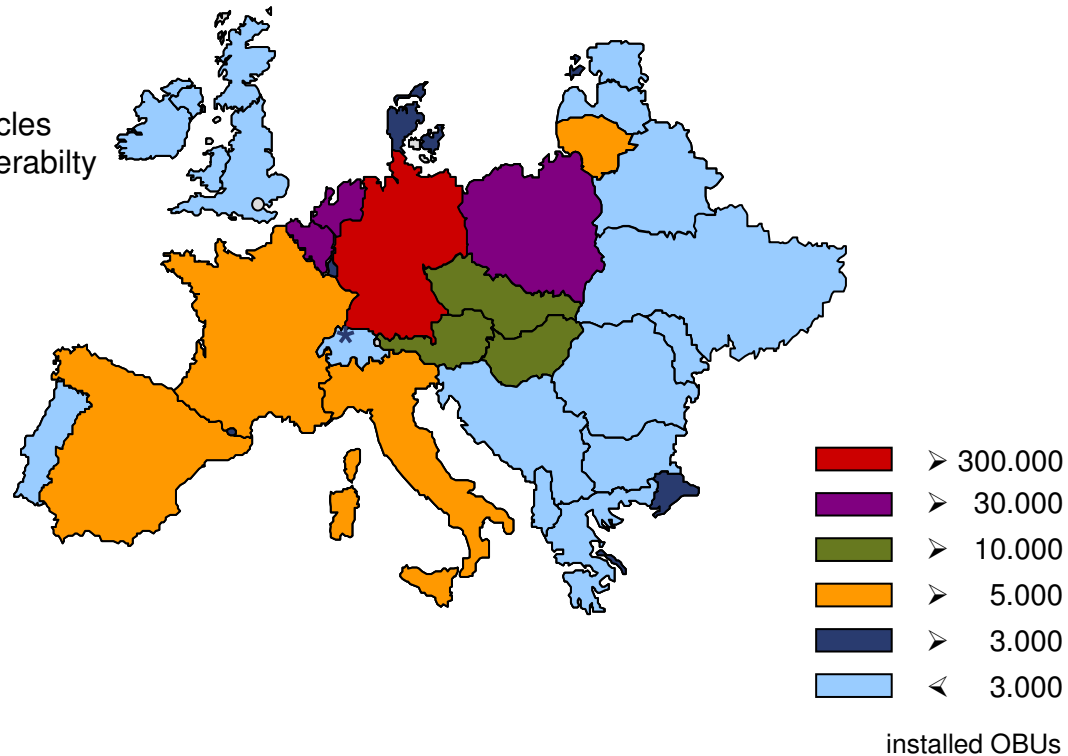
Installed OBU	<b>534.575</b>
Driven kilometres	<b>43.188.856.743</b>
Recording quota	<b>99,5%</b>
Registered vehicles	<b>818.070</b>
Registered users	<b>116.157</b>
Revenues in €*	<b>5.130.152.399</b>
Service partners	<b>1.400</b>
Toll station terminals	<b>3.600</b>
Automatic income Sep06	<b>90%</b>
Manual income Sep06	<b>10%</b>

\* 1 € = 0,67 GBP

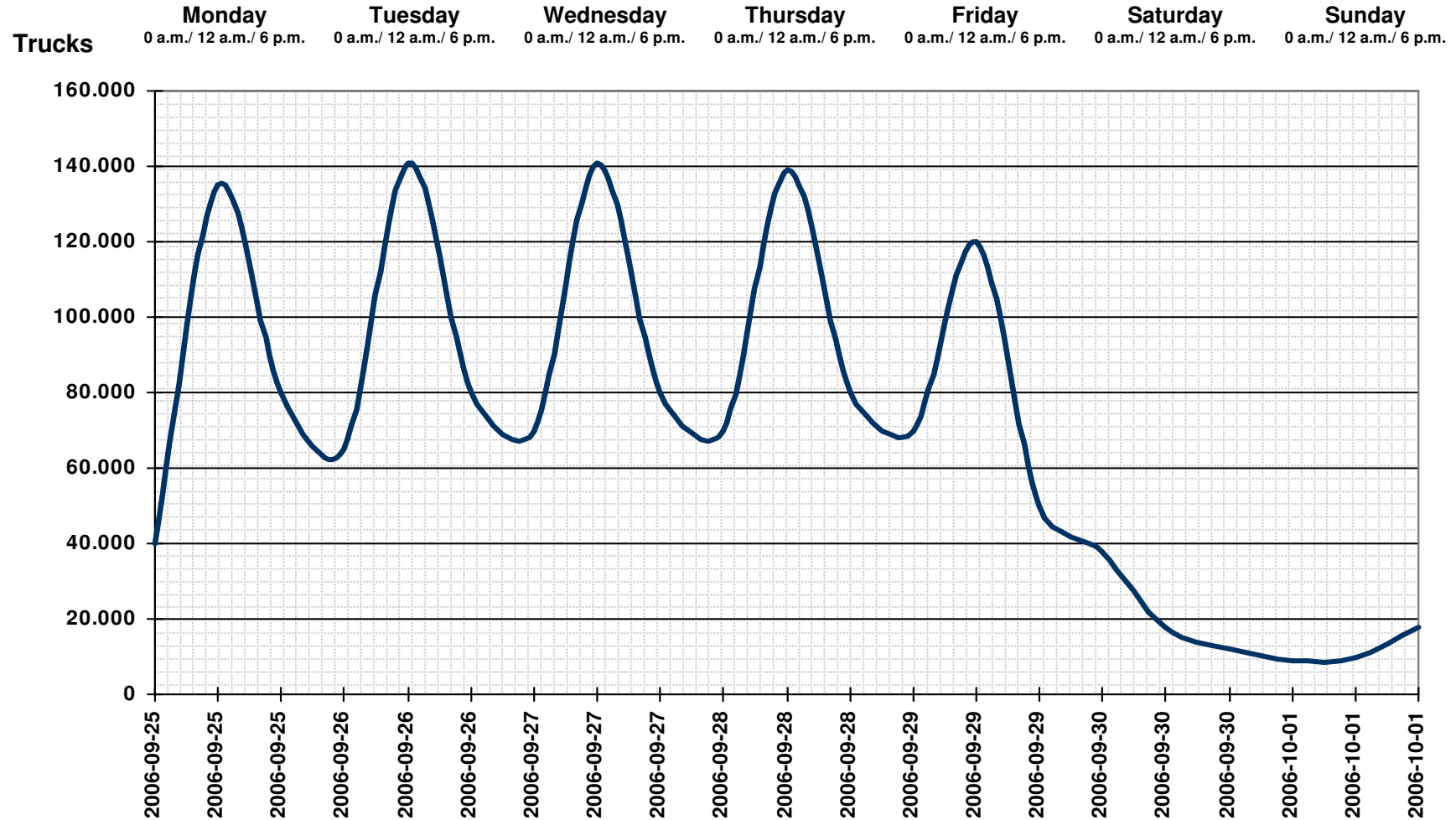
1 € = 1,27 \$

## Toll Collect sets the stage for interoperability with other toll systems.

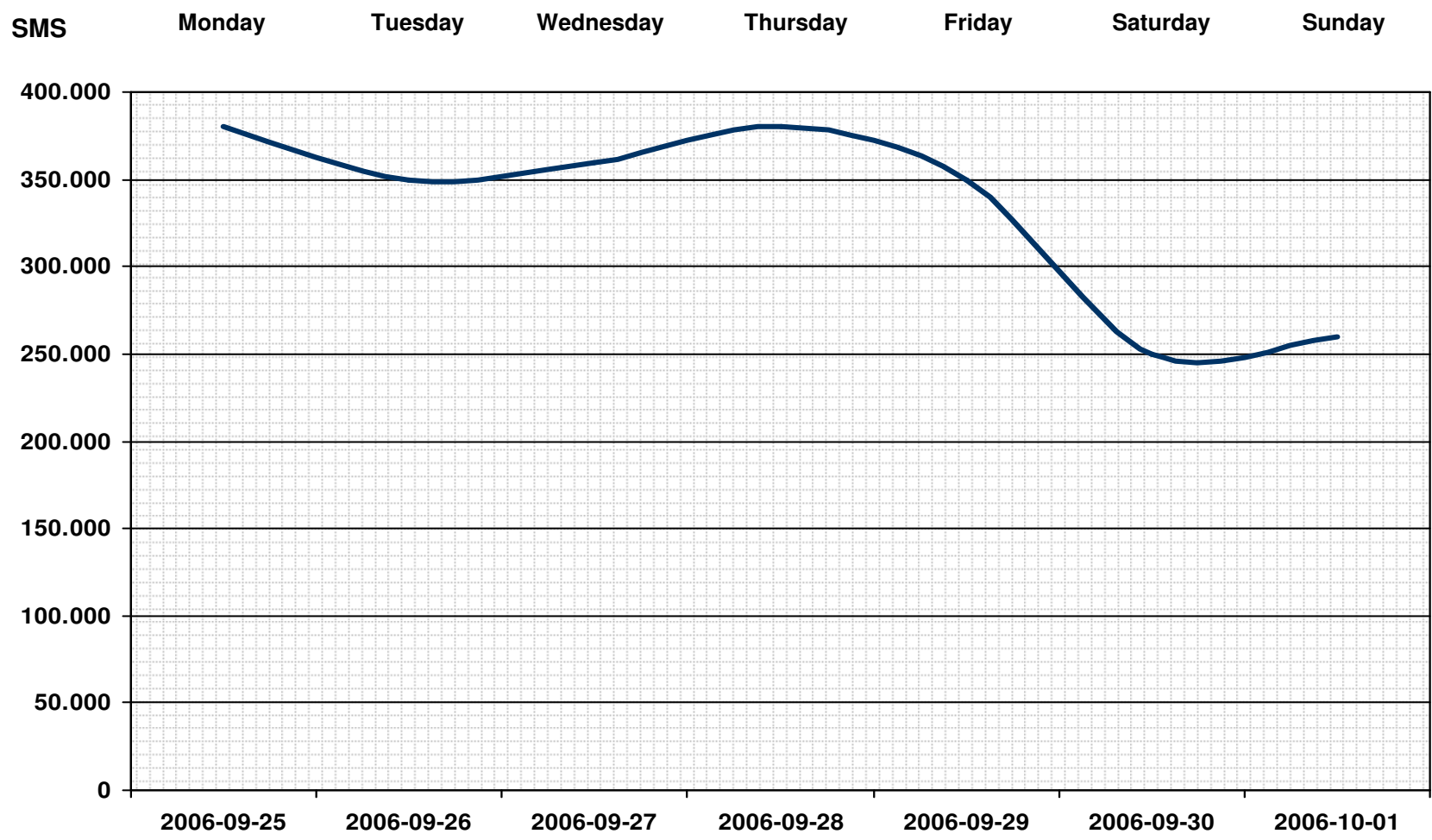
- 534.575 On Board-Units installed
  - ▶ 196.395 OBUs in foreign vehicles
- DSRC-Module as base for interoperability



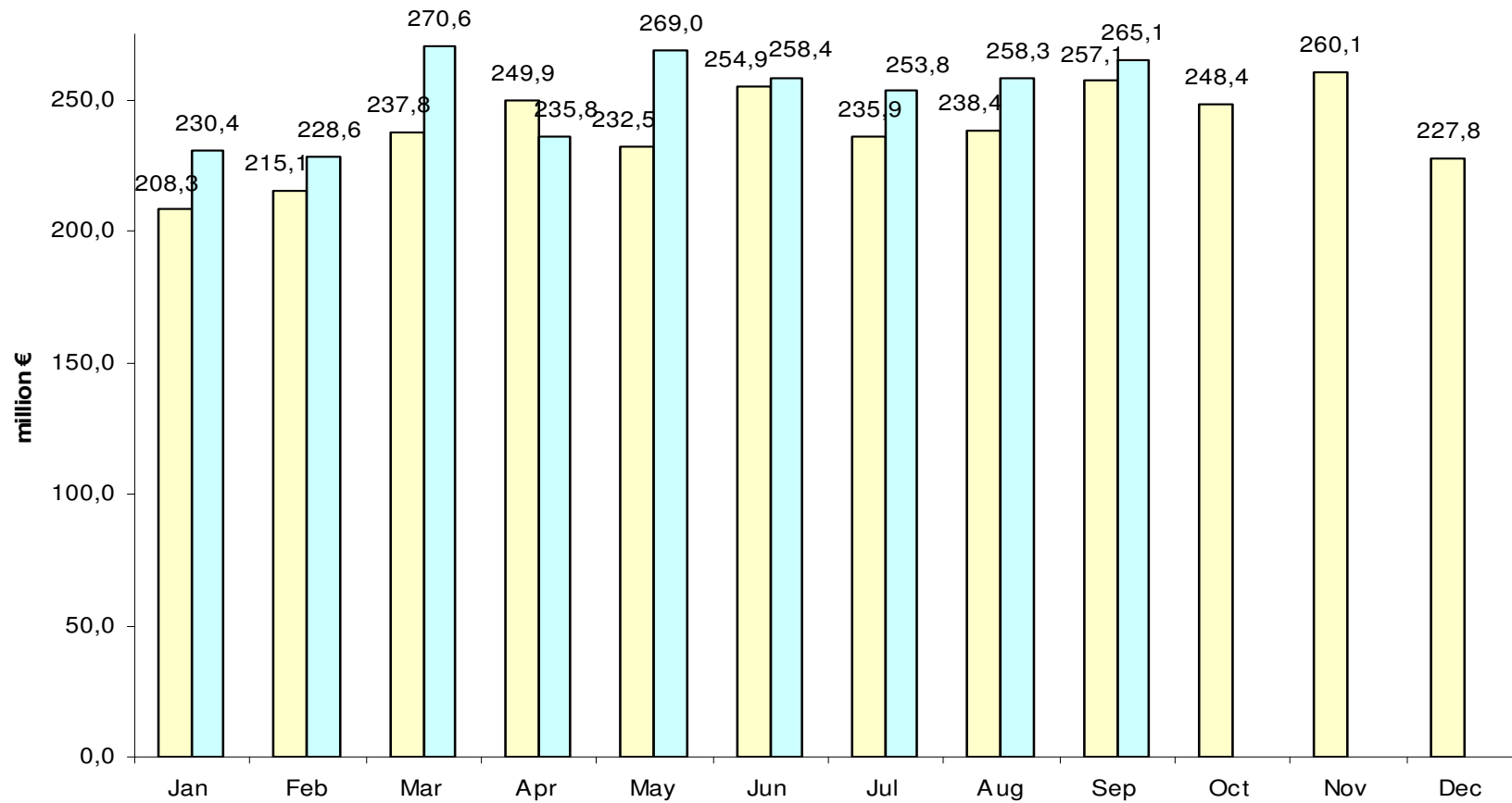
# Amount of traffic 2006-09-25 – 10-01



# Number of messages (SMS) 2006-09-25 – 10-01



## Revenues in €



□ 2005 □ 2006

Source: German Ministry of Transport until September 2006