

















ETC.de, a consortium comprised of Daimler-Chrysler, Deutsche Telekom and French toll-road operator Cofiroute, will offer the service, scheduled to begin next year. Daimler-Chrysler and Deutsche Telekom each own 45 percent of the winning group and Cofiroute has 10 percent.



German Truck-Toll Plan, cont.

The system, **mandated for use by trucks of more than 12 tons**, is expected **to generate some \$3.4 billion per year** (based on a fee of about 24 cents per mile), which will be used for improvements to the German transportation system.

Once a Toll Collect–equipped vehicle begins to move, **the GPS receiver automatically identifies the road on which the vehicle is traveling**. As soon as the truck enters a toll road, the onboard unit uses the truck's data (number of axles and emissions class) and the number of kilometers driven to calculate the tolls. A wireless communications link transmits the distances traveled by vehicles to the Toll Collect Center. The center then arranges payment of the toll with the shipping company.

"Since the system functions completely automatically, the driver can concentrate fully on the road," says Michael Rummel, managing director of mobility management at Daimler-Chrysler Services. **"The positioning** function of the navigation system is so precise that the unit can accurately and easily determine whether a truck is on a toll highway or a parallel toll-free road," adds Rummel.























































SECCHI Major Science Objectives

What is the 3D structure of coronal loops, streamers, and large-scale coronal features? What configurations of the corona lead to a CME? What processes initiate and accelerate CMEs? What is the 3D structure of CMEs? How do CMEs interact with heliospheric structures? How do CMEs cause space weather disturbances?

Courtesy S. Plunkett











Priority	Model	Customer	Impact	Lead Time
1	Solar Energetic Particle Forecast	Airlines Satellite Launch	Solar Energetic Particles	5-12 hours 12 hours
		Manned Space Flight		5 days
2	Relativistic Electron Forecast	Manned Space Flight	Radiation Belt Electrons	5 days
2	Regional Geomagnetic Forecast/Specification	Electric Power Airlines	Geomagnetic Activity	Various, function of skill
3	Ionospheric Disturbance Forecast/Specification	GPS	TEC and Scintillation	1 day
3	Ap Prediction	Various	Geomagnetic Activity	1-3, 7, and 27 days
4	Dst Prediction	Various	Geomagnetic Activity	Storm onset, max, and end

