



1

Seattle, Washington and Cambridge, Massachusetts



**FOLLOW THE TRASH!** Trash/Track, a Seattle project created by MIT's SENSEable City Lab, tracked a representative sample of city throwaways using GPS and CDMA cell-tower trilateration. Tagged items phoned home to an MIT server which mapped their progress in real time. Hint: Stuff doesn't go away. <<http://senseable.mit.edu/trashtrack/>>

2

Pennsylvania USA



**SENSITIVE FOOTBALL** Was the football caught before it bounced? Did the quarterback make the goal? A Carnegie Mellon computer engineer and her students are using embedded touch sensors, GPS receivers and accelerometers to create a football that knows the answers. Their next prototype adds data from GPS receivers near the field. <[www.footballtracking.org/index.php](http://www.footballtracking.org/index.php)>

3

Korou, French Guiana



**KOUROU STARTUP** Galileo is getting closer! A groundbreaking ceremony for Galileo's central ground stations (TT&C, GSS, ULS) took place last November 19 inside CNES's Centre Spatial Guyanais. The first two Galileo IOV satellites are expected to launch from CSG in November 2010—but stay tuned for delays.

4

London, United Kingdom



**\$500 MILLION!** GNSS technology is everywhere—navigation, telematics, tracking, surveying, machine control, and network timing—and shipment of its components and products will be worth \$500 million in 2010, said ABI Research of London last December. And with multiple systems and related technologies, they expect \$1.1 billion worldwide by 2014.

5

Lagos, Nigeria



**POWER SUPPLY** Lagos state's new Continuously Operating Reference Station must deliver real-time GNSS information... continuously. But Nigeria's electrical grid is notoriously unreliable. Developer GeoQinetiq devised a system that channels public power through a low voltage monitor. During outages, it switches to daytime solar power or a backup charged by the other two sources.

**IT'S ALIVE** One of the three GLONASS-M satellites launched on December 14 went live on January 12. Looks like it's going well after schedule interruptions earlier caused by problems with a navigation payload on an in-orbit spacecraft. That brings the active satellite constellation to 21.

1. Image courtesy Massachusetts Institute of Technology SENSEable City Laboratory.  
 2. 2006 NFC-AFC Pro Bowl, February 12, Aloha Stadium, Honolulu Hawaii. Wikimedia Commons  
 3. Satellite image of Korou, French Space Agency's Guiana Space Center. CNES Photo.  
 4. International bank notes. Wikimedia Commons  
 5. CORS station in Lagos, Nigeria. GeoQinetiq photo.

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