What's New in Cube

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Overview

• Citilabs – the Company
• Cube 6.1
• Compatibility Updates
• Usability Updates
• Improvements to Highway Modeling
• Cloud Computing
• Questions
CITILABS – the Company

- Headquartered in Tallahassee
- Other Offices in Atlanta, Hartford, San Francisco, Milan, Munich, Beijing, Bangkok, and Mumbai
- Longstanding ESRI business partner
- Ownership change in 2013. Now owned by Management, Staff, and ESRI

Cube 6.1

- Released: April 10, 2013
- Service Pack 1 released shortly thereafter with some additional updates
- An update to Cube 6 keeping the same overall look and feel
- Addition of many commonly requested features and tools
- Major overhaul of an entire library
What's New in Cube

Compatibility Updates

- Cube is now compatible with ESRI ArcGIS 10.1/SP 1 and uses this as the default ArcGIS Engine
- Cube is also now compatible with Windows 8 & Server 2012

ArcGIS 10.1  esri

Windows 8  Windows Server 2012

What's New in Cube

Usability Updates

- Snap-to-grid in application manager
- Improved editing of file geodatabases
- View larger matrices in Cube Base
- Bigger road networks (up to 10 million nodes and links)
- Multi-language capabilities in Cube script editor
What's New in Cube

Improvements to Highway Modeling

• Cube Base, Cube Voyager and Cube Avenue now support up to 1,000 volume sets, trip matrices, and/or select link results!
• Bi-Conjugate Frank-Wolfe Assignment has new SMOOTH parameter to reduce oscillation patterns.
• Currently in internal beta is new traffic assignment algorithm for tight closure at high speed.
• Big Data
  – Now available: Here (NAVTEQ™) nationwide roadway network and traffic database

What's New in Cube

Cube Cloud Released in July 2012:

• Develop the Model with Cube in the Desktop Environment
• Publish the Model from Cube to the Cube Cloud
• Create, run and analyze scenarios from anywhere
### Benefits of Cube Cloud – Reduced Run Times

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<th>HIGHWAY ASSIGNMENT</th>
<th>ABM MODEL</th>
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~>80% faster  ~>93% faster  ~>95% faster

### Benefits of Cube Cloud - Scalability

- Start 1, 10 or 100 scenarios simultaneously — all start immediately
- Improve validation & forecasts by conducting more model runs

### Benefits of Cube Cloud - Sharing

- You own model and invite others to use it
- No more physical copy of scripts and models
  - Eliminate onerous, mistake prone process
  - Eliminate version control problems
  - Protect model integrity by not sharing scripts
  - Protect intellectual property by not showing scripts
- Users run model through simple web interface
What’s New in Cube

Benefits of Cube Cloud – Apps & Resources

- Free apps provide access to commonly used analytic tools.
- Comes standard with Cube Cloud!
- Paid apps allow users to “sell” their models on the Cloud...
- Nationwide block-level socio-economic data (free with Cloud)

What’s New in Cube

Questions?