



Glasshouse
by **Green Phosphor LLC**

Data Visualization Engine for Virtual Worlds

A New Level of Intelligence

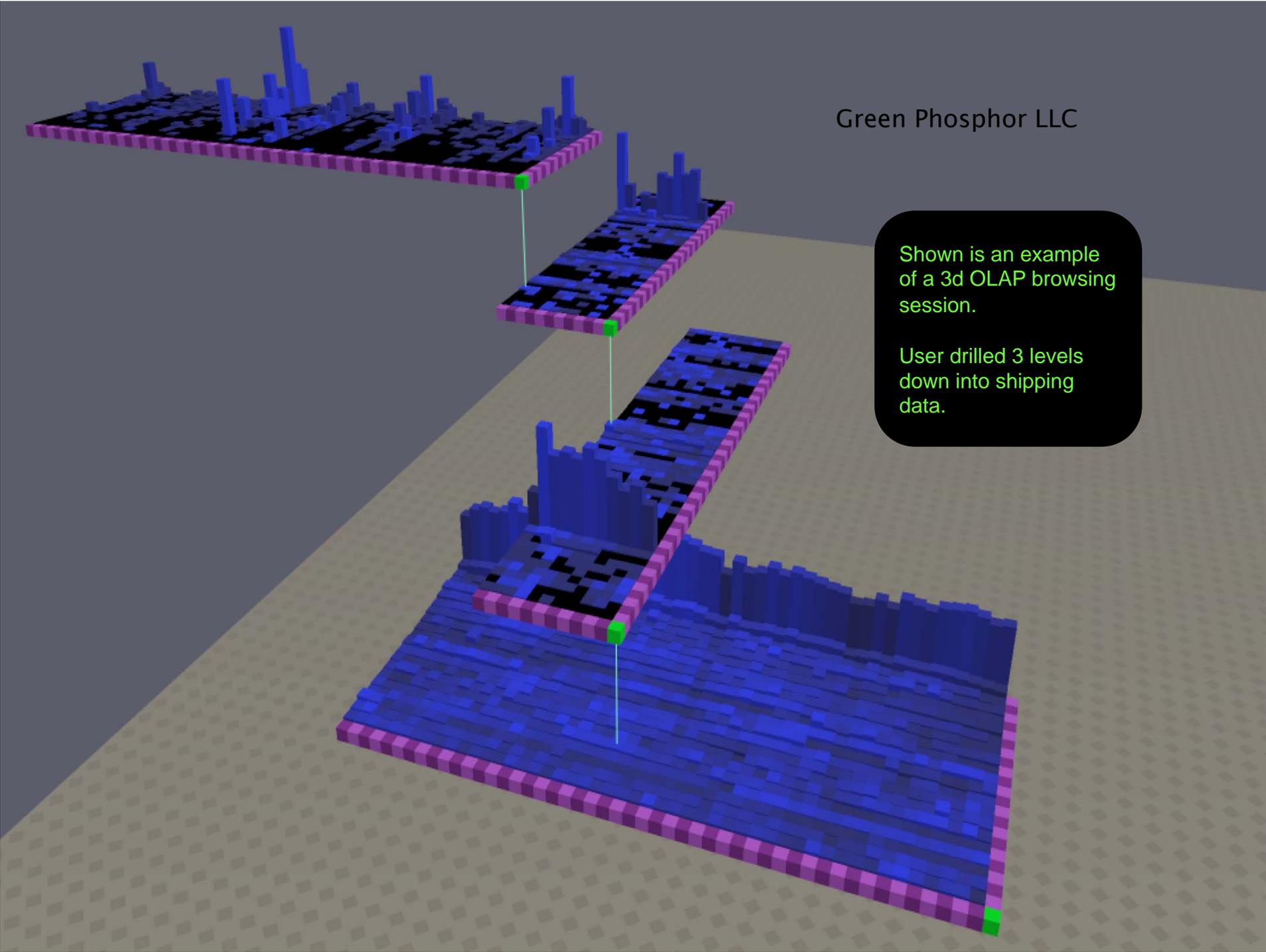
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<http://greenphosphor.com>

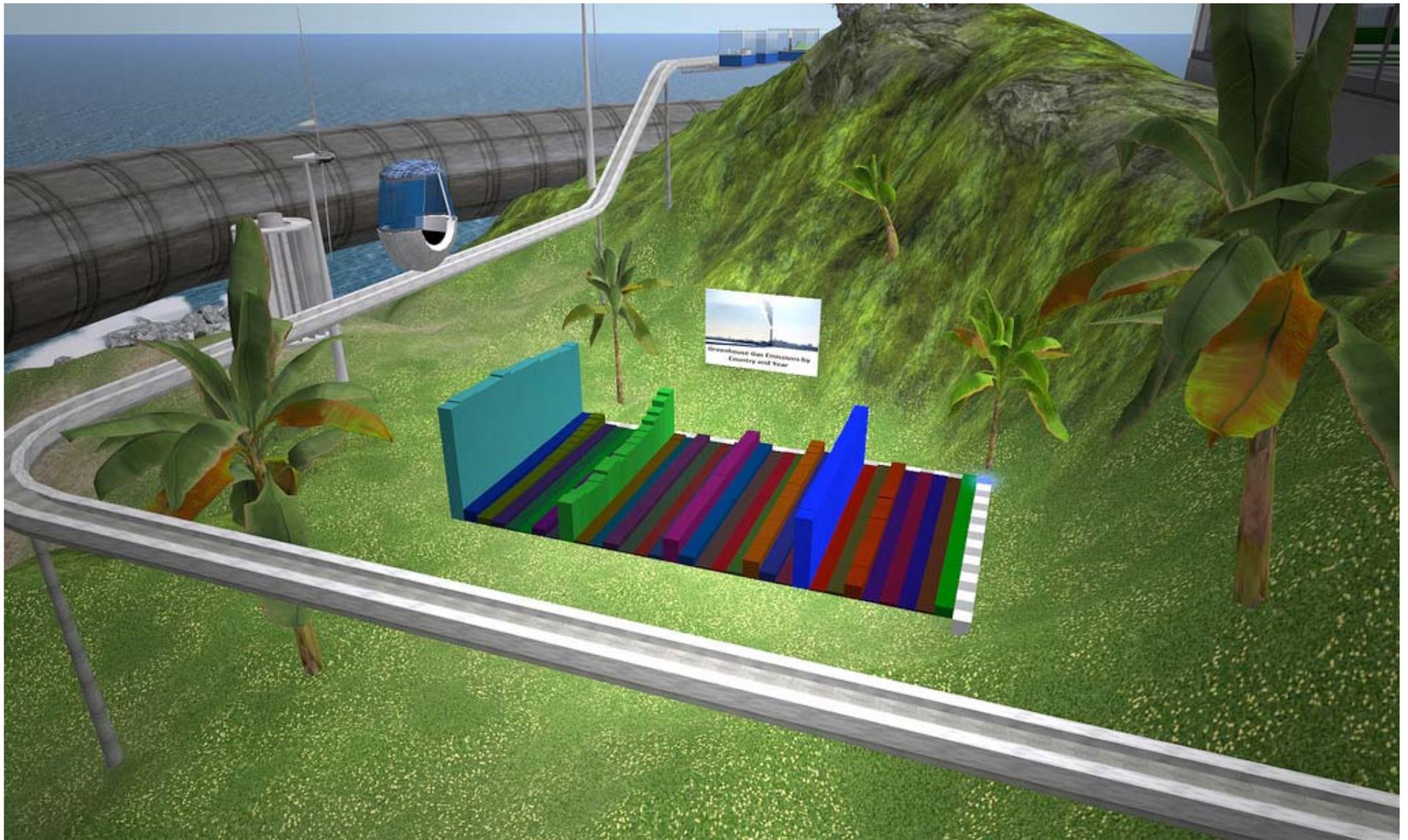


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Shown is an example of a 3d OLAP browsing session.

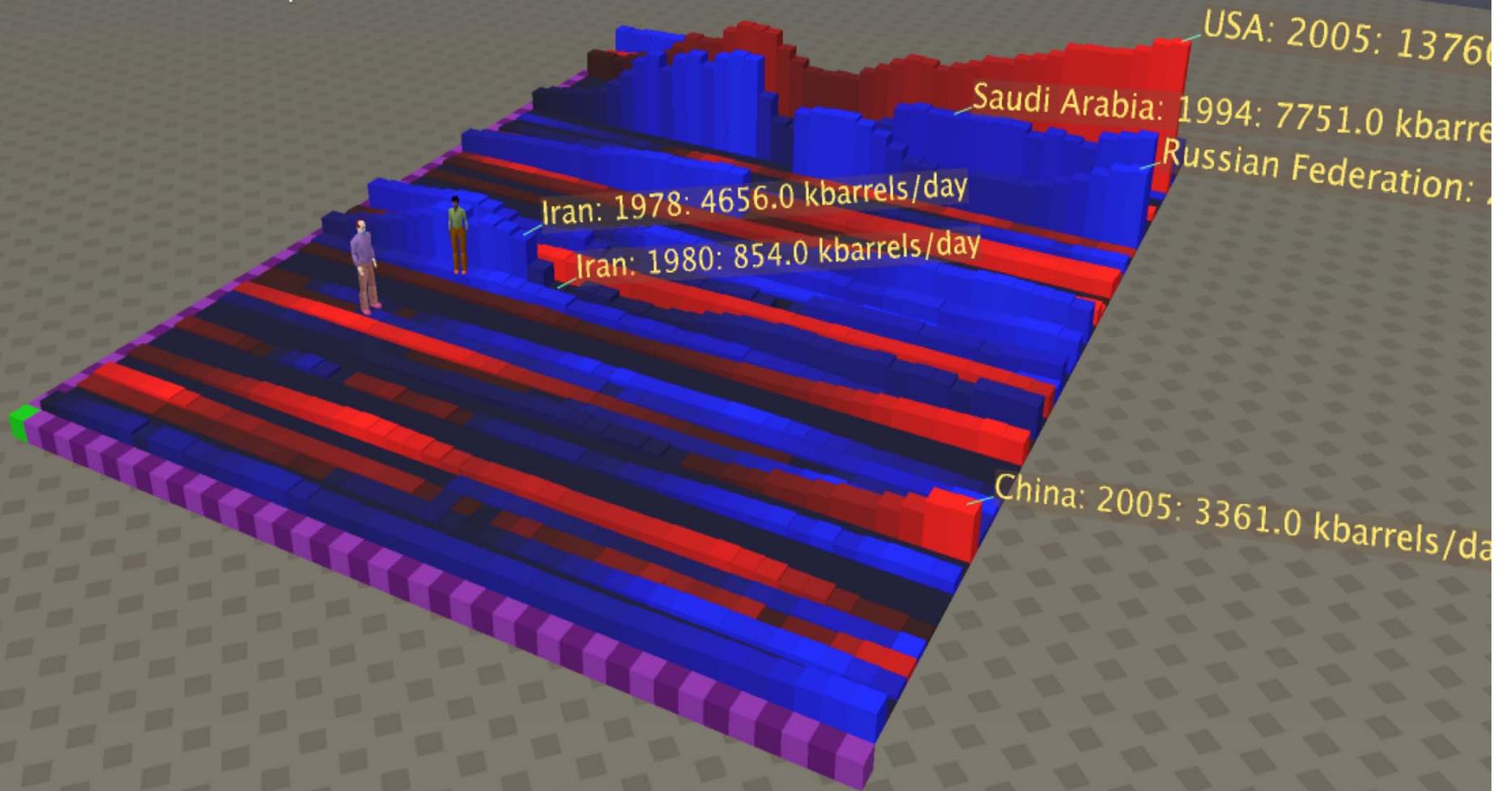
User drilled 3 levels down into shipping data.





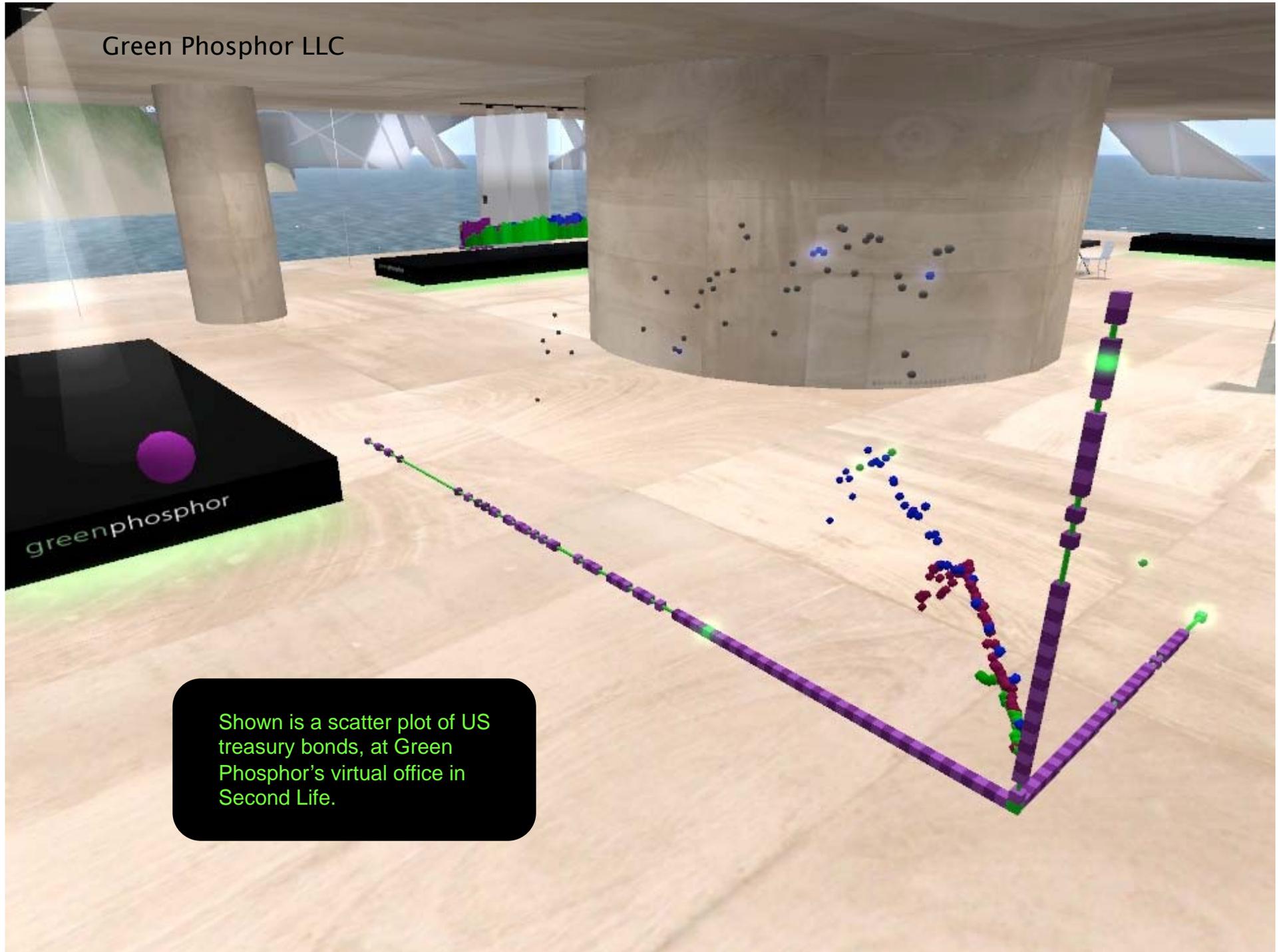
This is a graph of greenhouse gas emissions by country and year, produced by Glasshouse and displayed on the Department of Energy's island in Second Life. You can see US and EU emissions leveling off (blue-gray and blue countries), as well as severe economic difficulties experienced by the Russian Federation.

Virtual World Data Environment
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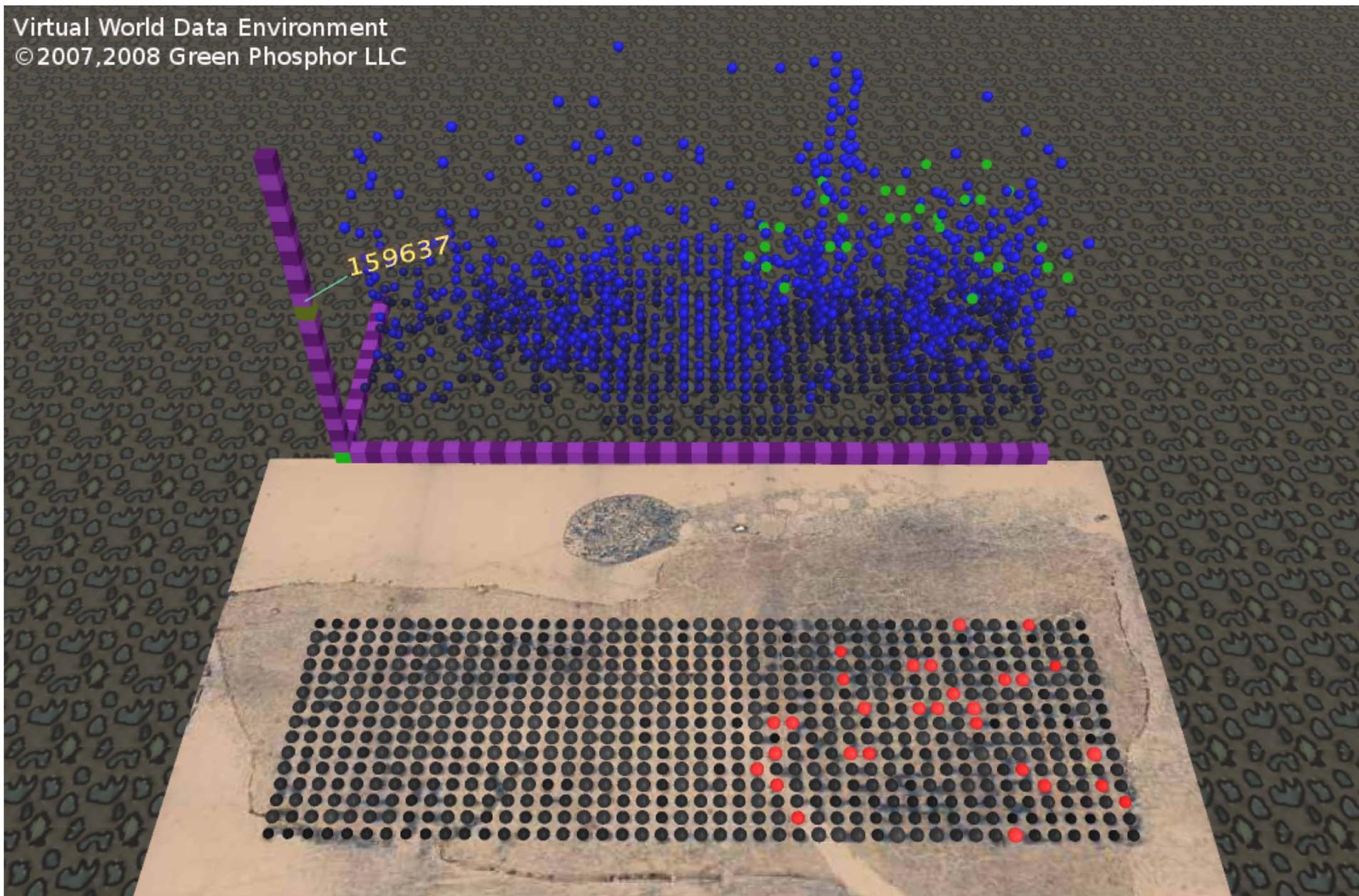
Shown is a 3D histogram of world net oil production (red = net consumption), in Wonderland, from BP's World Oil Stats. The user has clicked several nodes, enabling the floating titles. Every node of every graph reveals text-based data upon mouseover, and presents a menu to the user when clicked. The avatars of two other users are visible standing on the graph.

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Shown is a scatter plot of US treasury bonds, at Green Phosphor's virtual office in Second Life.

Virtual World Data Environment
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Green Phosphor LLC: *Proven Value* in Biotech Research



Green Phosphor
LLC

We are committed to integrating
with all virtual world platforms.

Core Technology: "Glasshouse"

- closed-source, obfuscated Java
- virtual world independent
- can run on user's machine or on server
- provisional patent app filed Oct 2007; full app Oct 2008; Buchanan Ingersoll Rooney assisted
- accesses data from any SQL db or Excel

Open Plugin API

CICP Network Infrastructure

- used internally to provide connectivity from many Glasshouse instances to multiple Internet virtual worlds
- public access mode
- private, secure access mode
- proprietary, closed-source Java code

CICP Protocol and Adapters

- open source, public domain
- protected as prior art via abandoned provisional patent app filed March 2008
- enables socket-level access to GPL or aggressive TOS virtual world platform by proprietary software
- useful for apps other than data visualization
- will be succeeded by MXP

Content Injection and Control Protocol (CICP) protects our core technology AND allows it to deploy within multiple virtual world platforms.

Teleplace

OpenSimulator

Integration pending

Wonderland virtual world

- free, GPL codebase
- perfect for use within a pure Business Intelligence appliance without "game-like" virtual world feel
- highly customized by us for BI use
- cross-platform, high-performance

Second Life

- large user base
- great aesthetics
- community of early adopters
- can license as add-on to private version

SAIC OLIVE

- best enterprise features
- good IC/DoD partner
- strong penetration into government, medical, and other enterprise markets

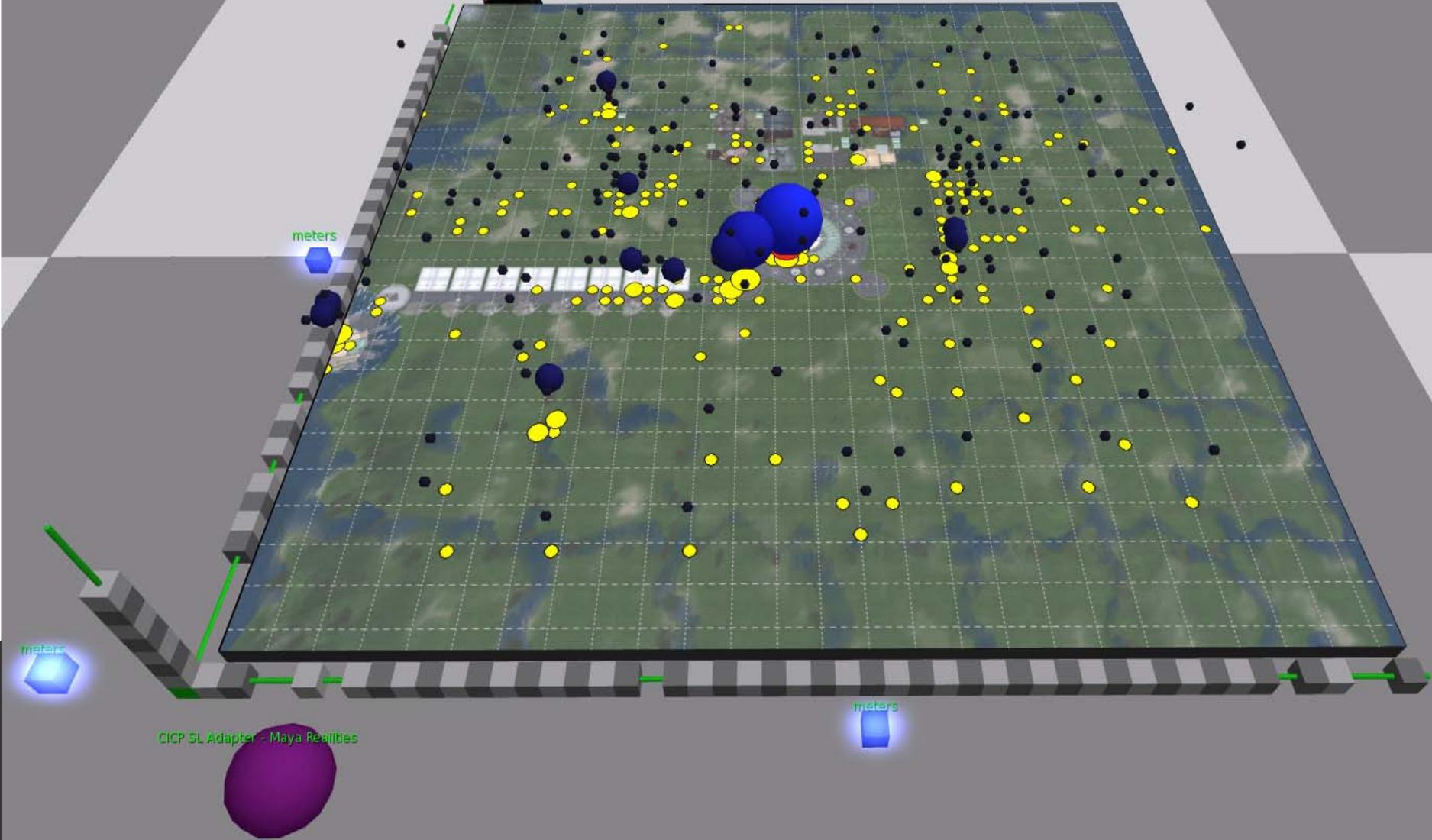
VastPark

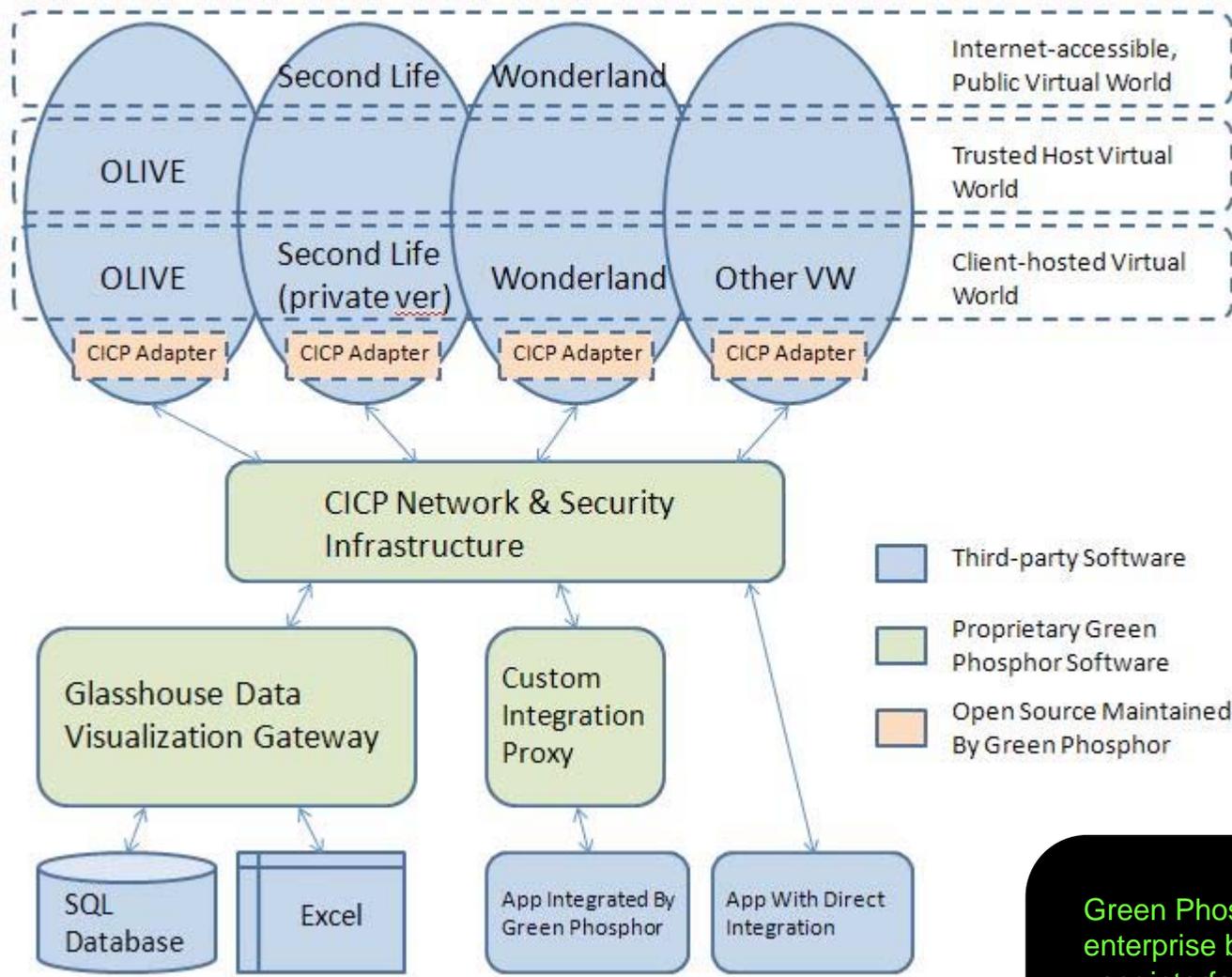
- open source
- excellent architecture
- high US Gov't interest
- cloud-hostable, .net
- IMML + MXP!

Integration complete (CICP fully implemented)

Maya Realities
Hackshaven Harford

Here's Eric Hackathorn
inspecting a live updating 3d
scatter plot he created with
Glasshouse.





Green Phosphor can provide an enterprise bus for delivering 3D user interfaces for existing applications. This allows data and applications to be accessed within the collaborative virtual world environment.



Pushing the Envelope

- 3D Visualization of Relationships
- Collaborative construction of cognitive models
- Cross-domain data sharing and analysis (fusion)
- Partnership with Center for Open Source Intelligence Excellence
- Partnership with Innovative Decisions
- MXP (Metaverse eXchange Protocol) <http://bubblecloud.org>
- Strategic partnerships for cyber security applications
- Integration of 3D UI with AI for “connecting the dots”



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Demo videos and software as a service available at
<http://greenphosphor.com>