

HIPERWALL FROM RESEARCH PROJECT TO PRODUCT

Stephen Jenks, Ph.D. Hiperwall Inc. Chief Scientist and Co-Founder sjenks@hiperwall.com

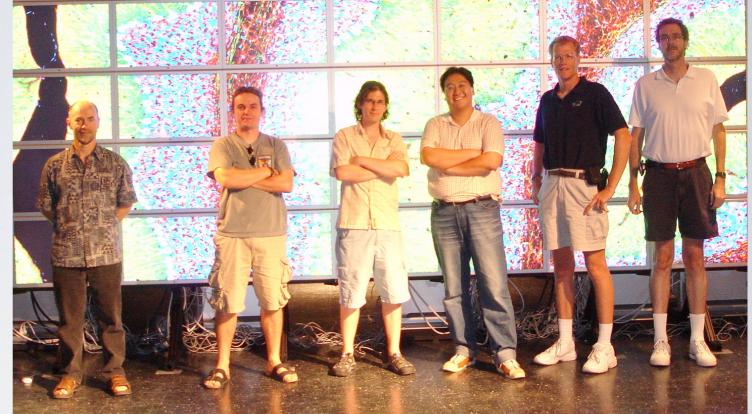
ABOUT ME

- Education
 - B.S. EE & Comp.E. Carnegie Mellon
 - M.S. & Ph.D. Comp.E. USC
- Experience
 - Northrop Grumman-Avionics & Medical Systems
 - UC Irvine-EECS Professor
 - Hiperwall Inc.-Chief Scientist



THE BEGINNING

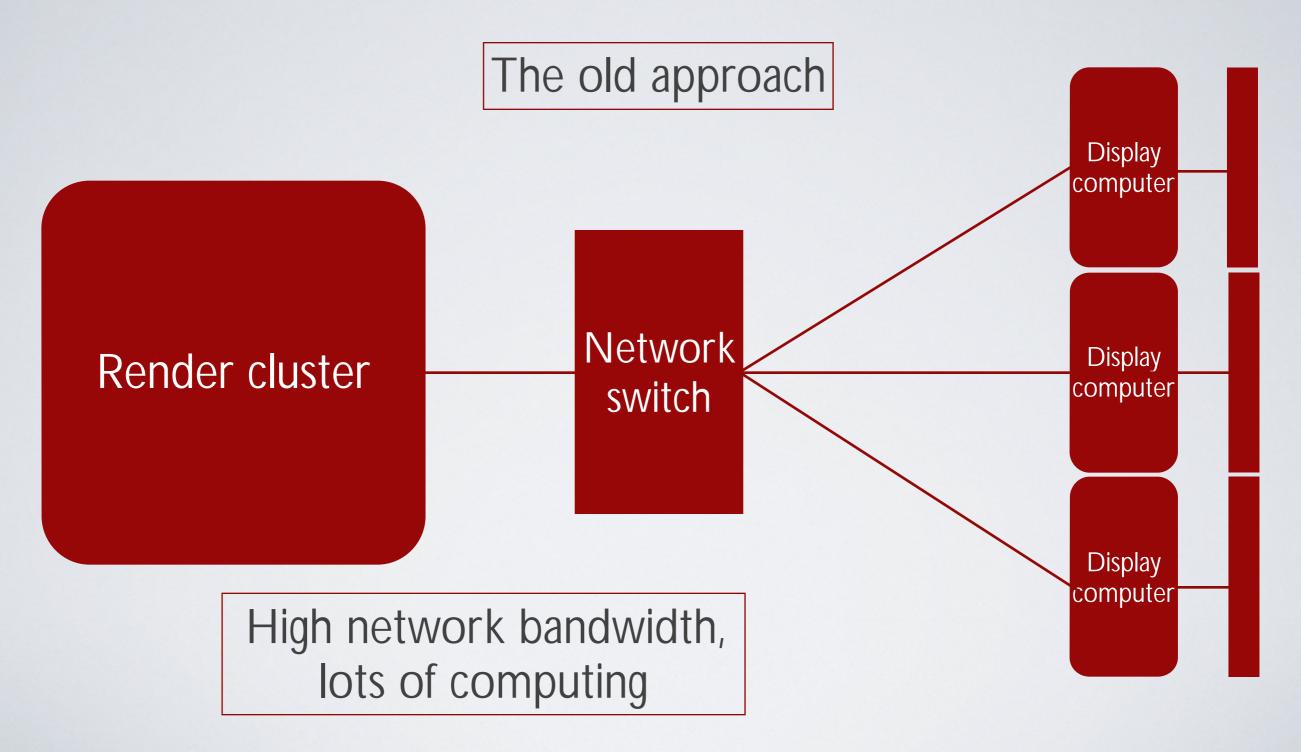
- In 2004, Falko Kuester and I won NSF MRI grant to build world's highest res display
- Highly Interactive Parallelized display Wall (HIPerWall)



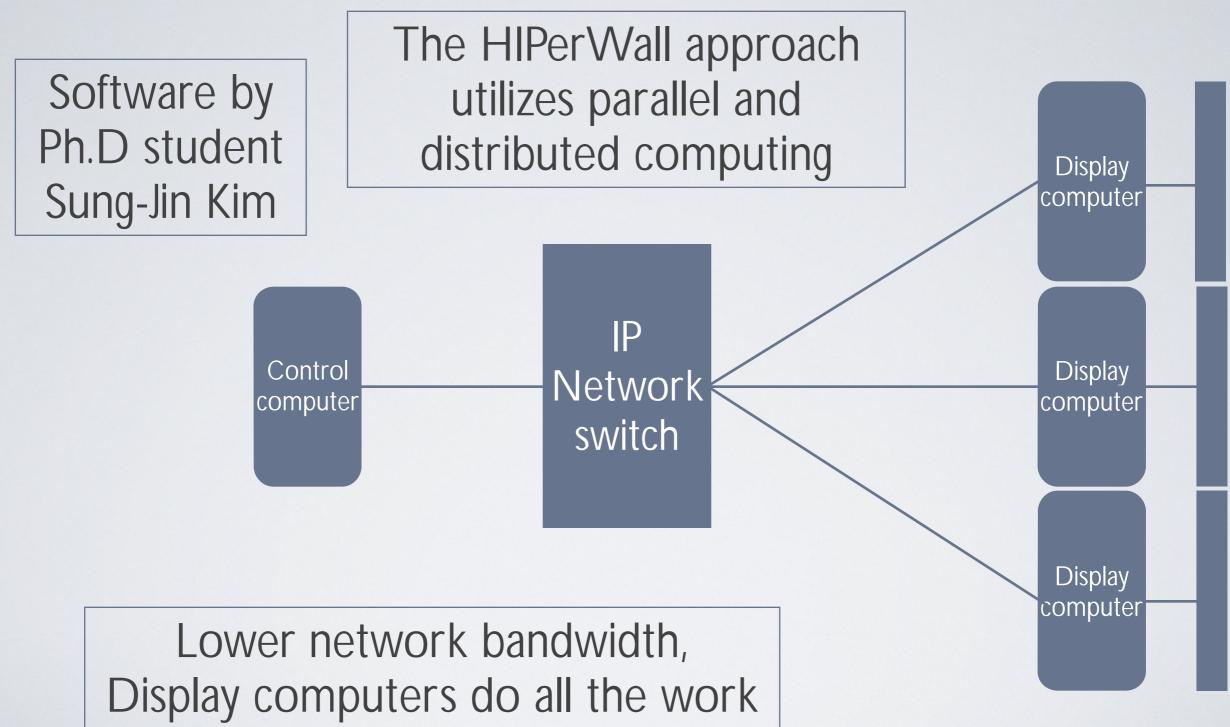
- 200 Million Pixels
 - 50 30" Apple Cinema Displays
 - 25 PowerMac G5s

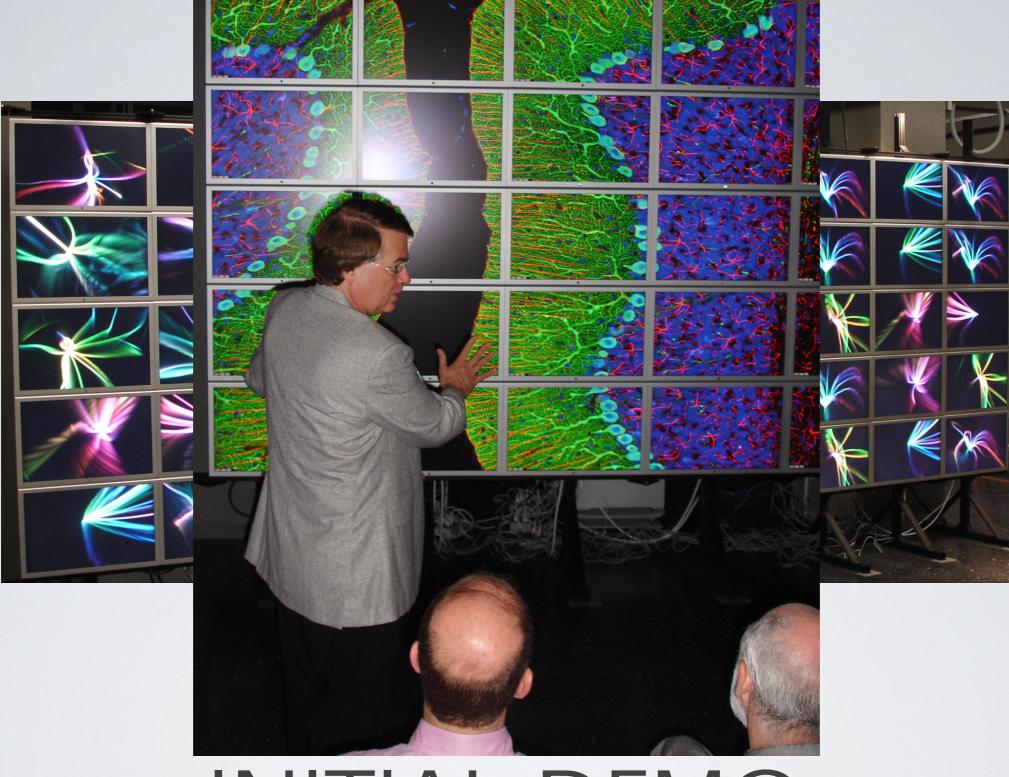


THE TECHNOLOGY



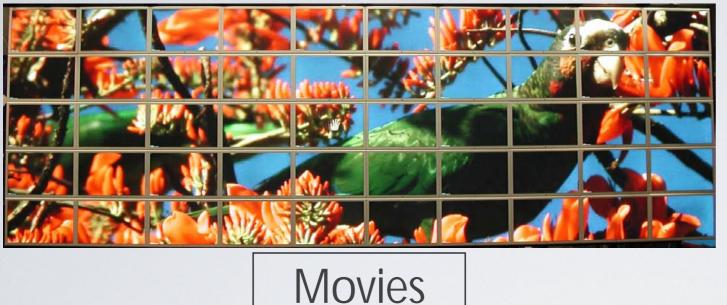
THE TECHNOLOGY





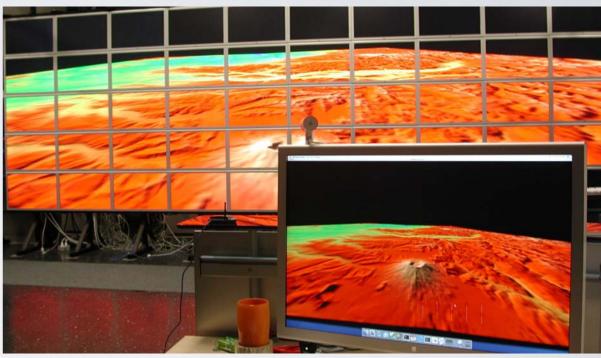
INITIAL DEMO

NEW FUNCTIONALITY

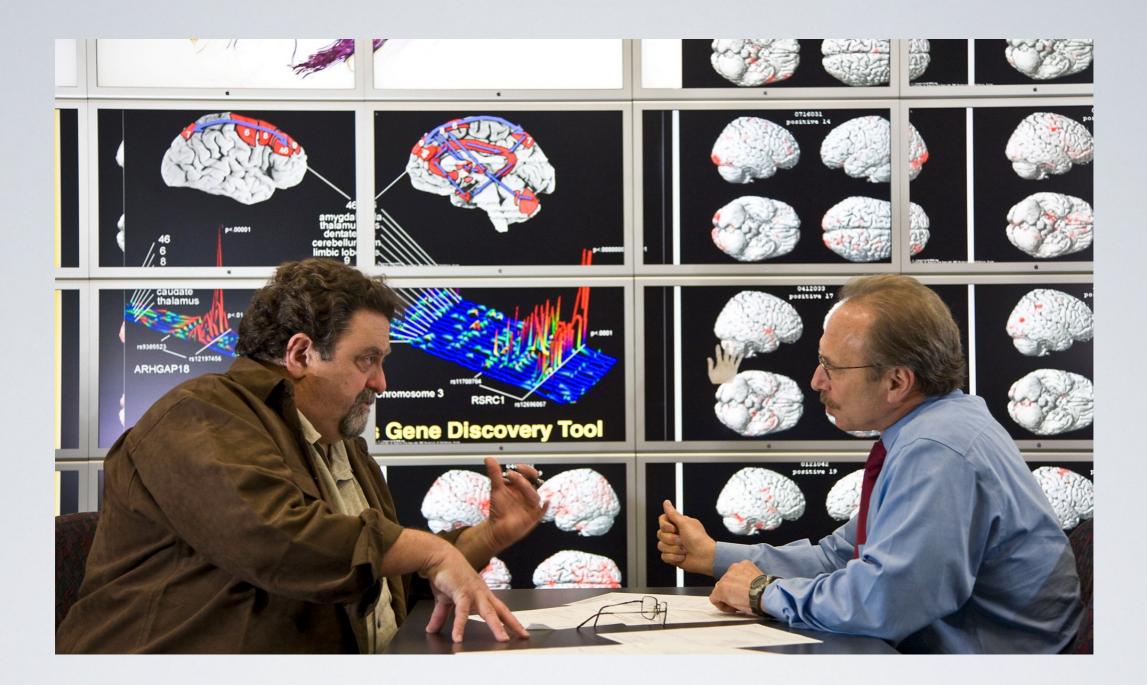


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fMRI Data







NEW USES

MEDIA COVERAGE

latimes.com.

Sunday, October 23, 2005 The next next big TV

By TAMARA CHUANG The Orange County Register

Researchers at UC Irvine have linked 50 Apple monitors to create a great wall of TV, dubbed the HIPerWall, or Highly Interactive Parallelized display. With it, they can show extremely-highresolution pictures, like satellite images and aerial photos of the campus.

Why would anyone need this? Medical imaging, climate data and satellite photography that could only be viewed partially or slice by slice can now be seen in detail on the big screen, said Falko Kuester, one of the system's designers and a UCI assistant professor of electrical engineering and computer science.



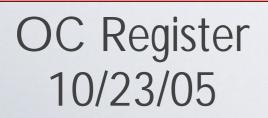
VIDEO WALL: The HIPerWall team includes, from left, UCI Professor Stephen Jenks, project director Falko Kuester and Christopher Knox, a postdoctoral researcher. The wall uses 50 extremely-highresolution monitors to effectively form one giant, detailed screen.

LEONARD ORTIZ, THE REGISTER

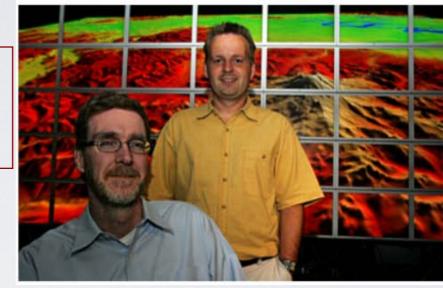
Kuester and his team at the Calit2 Center of GRAVITY (which stands for Graphics, Visualization and Imaging Technology) developed the software that makes the 50 monitors behave as one. The HIPerWall is being used to study geography patterns, such as the damage done by Hurricane Katrina, and to compare details of human brain activity by medical researchers. No need to crowd around one monitor.

" We need to do 3-D," says Kuester, giving a hint of what's to come. "At the consumer level, this could be a smaller package that supports three or four displays. The eventual goal is this will be a wall in your house."

http://www.ocregister.com/ocregister/news/article_726920.php



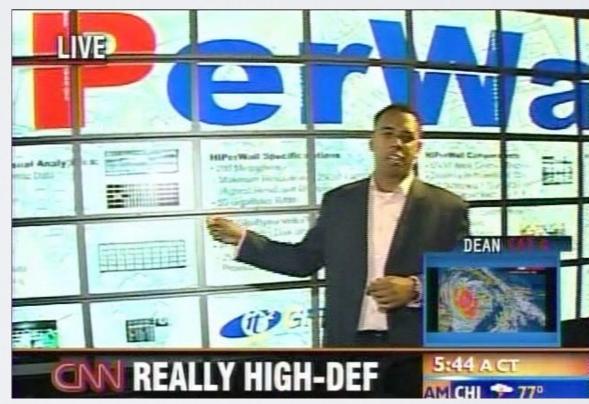
LA Times 8/13/07



Stephen Jenks and Joerg Meyer with their 200-million pixel screen. "It's exciting," said Meyer, a professor of computer graphics and visualization who helped develop the screen's software. "This display has higher resolution than the human relina can see." (Karen Tapia-Andersen / LAT)

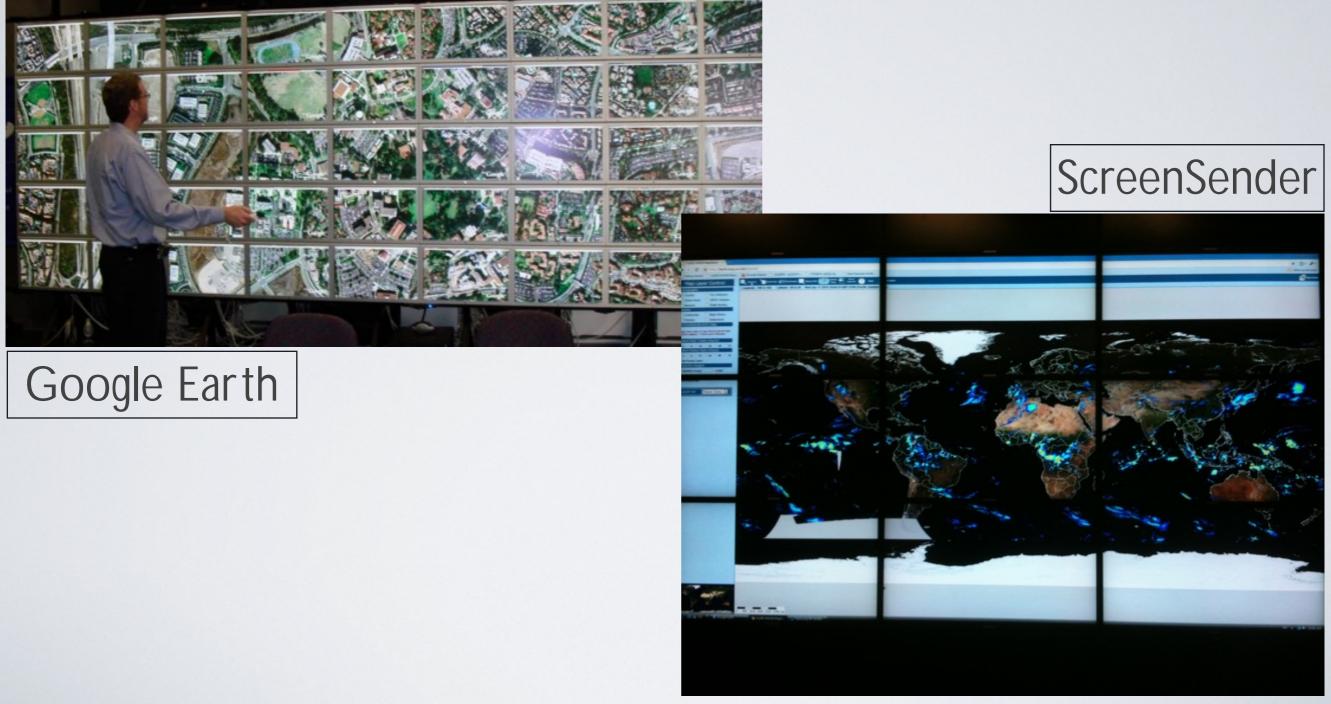
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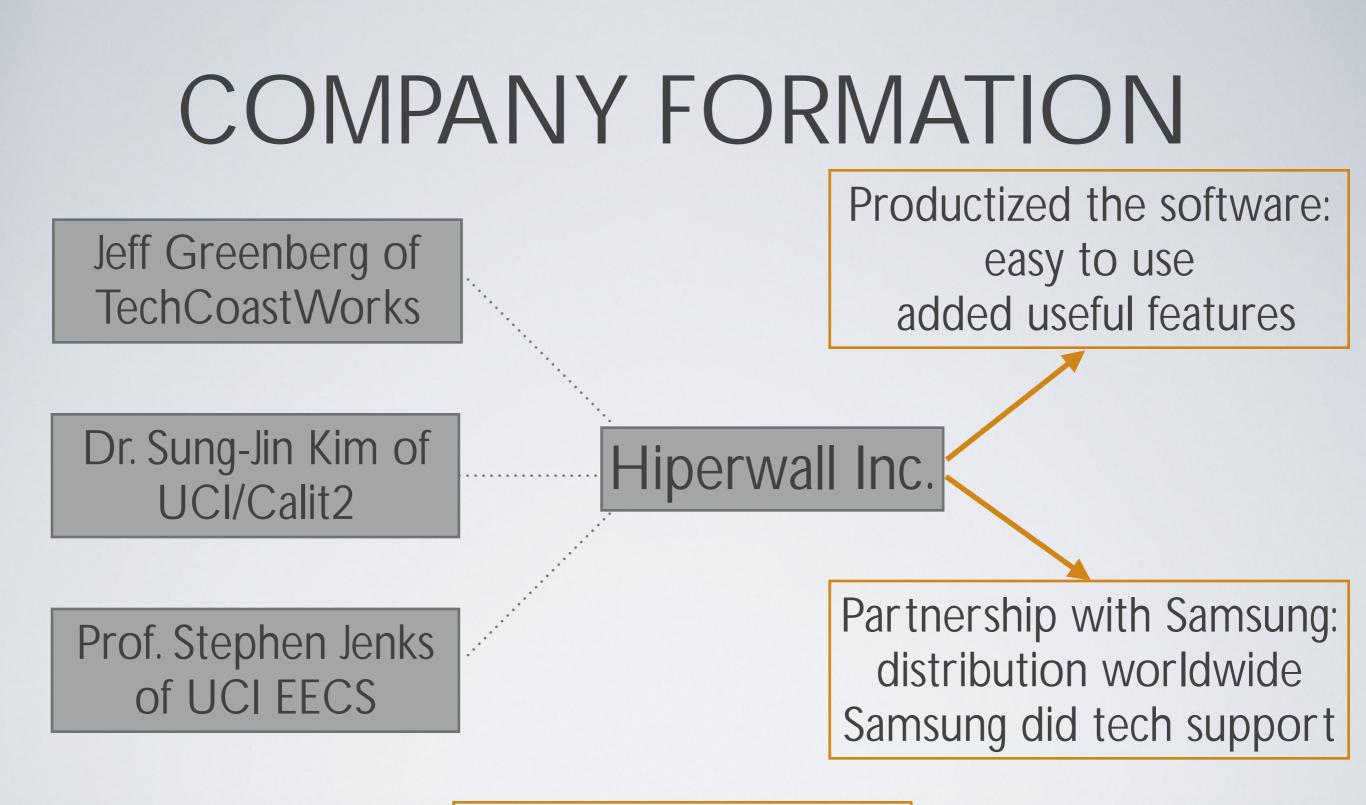
June 3, 2007



CNN 8/20/07

NEW HIPERWALL CAPABILITIES



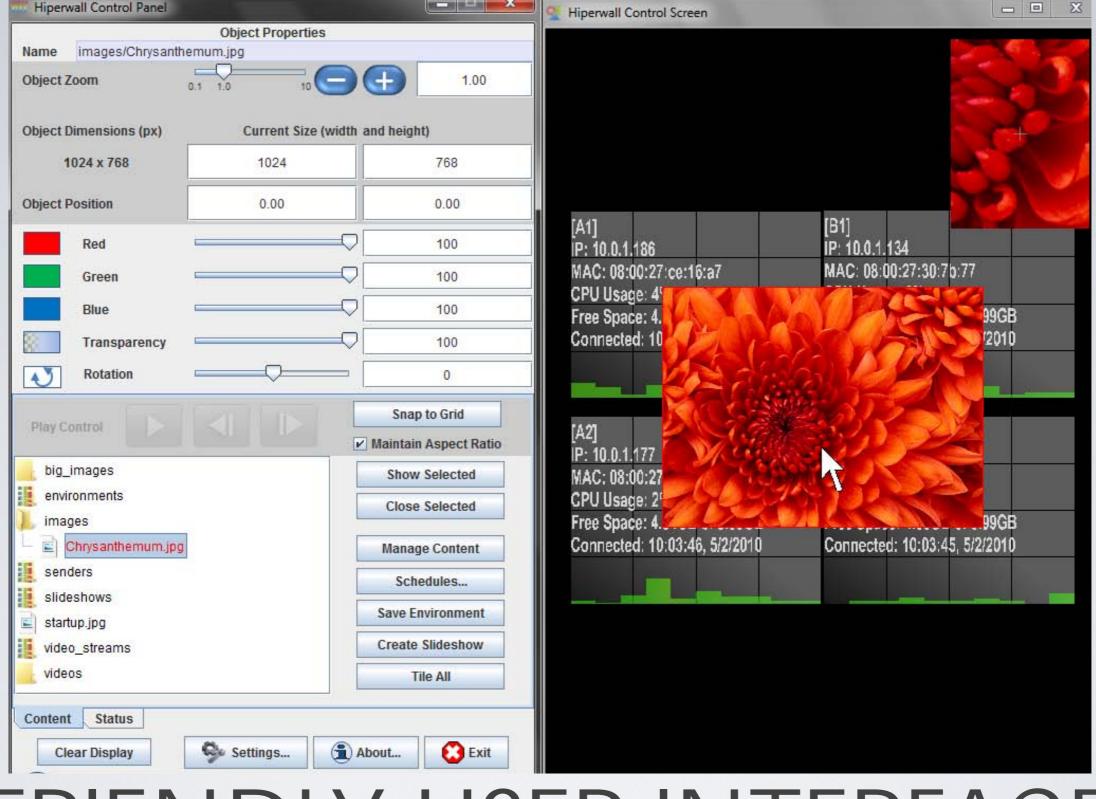


Didn't need VC funding

NEW CAPABILITIES FOR COMMERCIAL MARKET

- Screen Sender show screen of any PC on wall (web pages, PowerPoint)
- Environments save and restore the state of the content on the wall
- Slideshows step through multiple content objects
- Scheduling content displayed at specific times





FRIENDLY USER INTERFACE

ACHIEVEMENTS

14



Kenmore Live Studio



Brussels Airport

Information Week's Startup of the Week, 1/24/09



Free Speech Display at Calit2/UCI



Water presentation to Congresswoman Napolitano

> 100 Installations Worldwide

ADVICE TO RESEARCHERS

- Protect your ideas (patents: file invention disclosures). Follow up and keep track of patent progress.
- Stick with your strengths, bring on a business person, but learn about the business issues
- Make a product that solves a customer problem
- Utilize UCI Business School connections
- Continue to think of improvements/next-gen product
- VC money not bad: better to have 10% of a lot than 100% of nothing.

COMPANY INFO



- http://www.hiperwall.com
- Twitter: http://twitter.com/hiperwall
- Facebook: Hiperwall
- Presentation: http://www.stephenjenks.com/?p=216