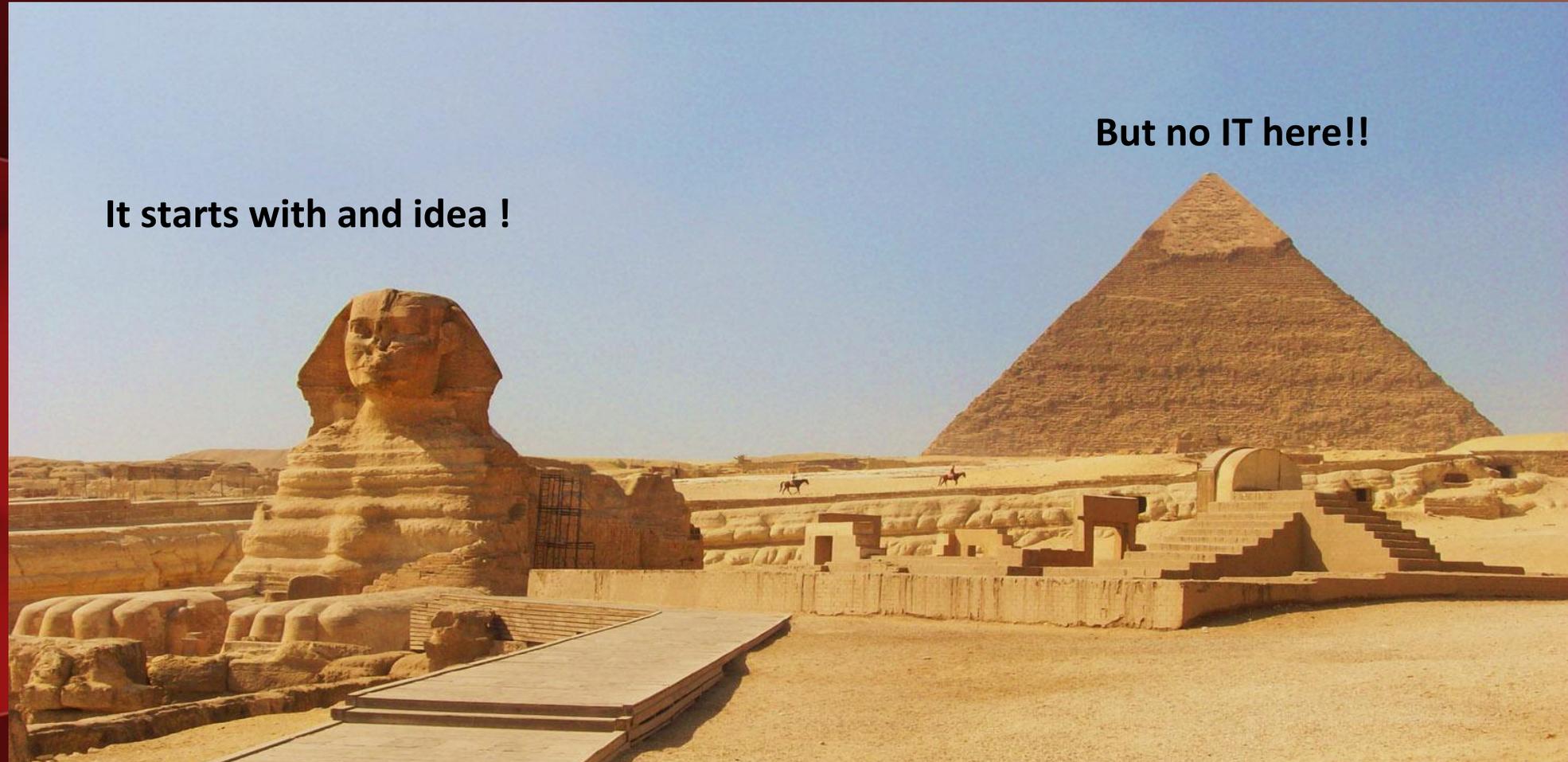


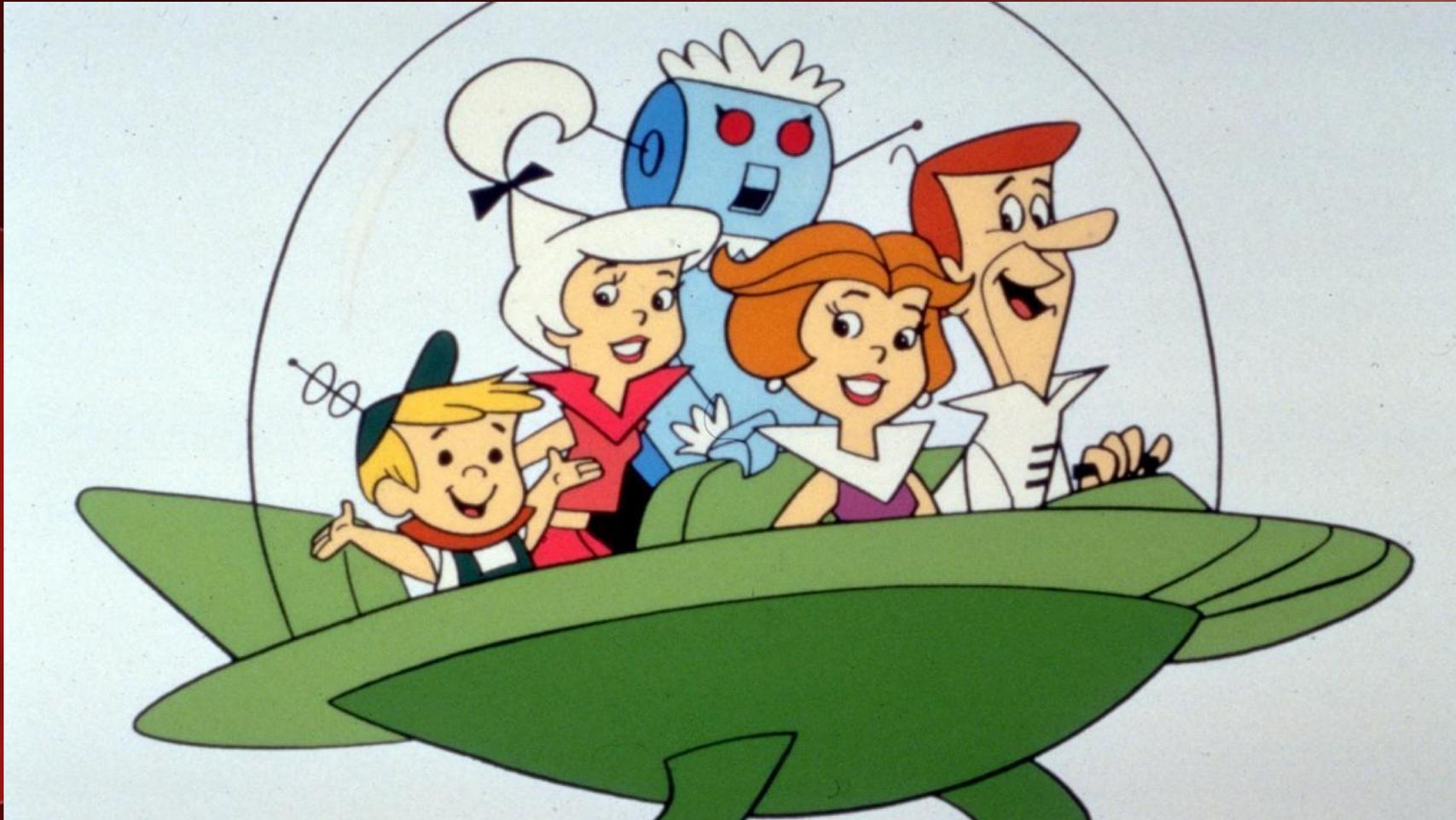
Construction and Information Technology



It starts with and idea !

But no IT here!!

Welcome to 2020 – Where is my flying car??



Smart Environment Enablement(SEE) A Path to the Future



Technology Enabling the Construction Industry

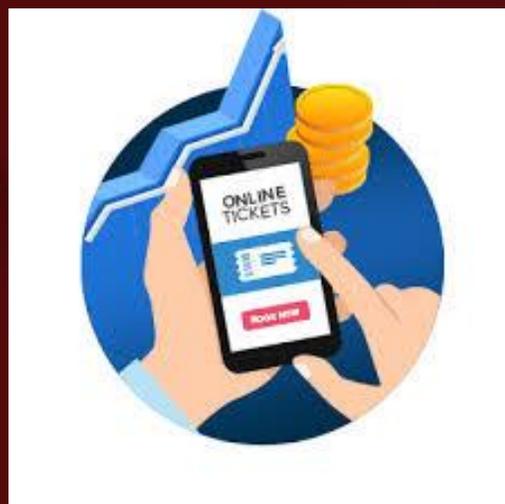
Fiserv Forum: State-of-the-art venue for world class sports and entertainment



Alexa



I want my services...



Where we started.. First project was for Digital Signage (840+ hi-definite IPTVs) late in the process

Won a spec (partnered with JCI) but....

- Quickly encountered ISSUES even in bidding process
- Specifications were outdated
 - Technologies requested at least 1-2 generations behind
 - Difficult to determine accurate 'total cost' looking 1-2 years out

Subsequent project work was reactive due to not being integrated earlier in the process

First and foremost – **Future Proof** your Designs

IT Infrastructure is defined broadly as a set of information technology components that are the foundation of IT services like:

hardware,

software,

network,

facilities, etc.

IT infrastructure typically refers to components required for the existence, operation and management of an enterprise IT environment.

A **Smart Environment Enablement** company provides the ability to tie together IT competencies.

What we observed

A Multi-vendor environments.

While most vendors will pitch an ecosystem, it is rare to have an entire building of connected, interoperable systems from a single manufacturer or conglomeration.

Vendors with GOLD Authorization Partnerships (Software/Hardware);

- Require financial investment to create certified specialists
- Receive more FUTURE road map information

Vendors without the highest authorization – Operate on what they know today!!

Where we ended up...

- HVAC
- Shot Clock
- Concessions
- Security Cameras
- Door Access
- VoIP Phones
- Paging systems
- Digital Signage
- Ticketing System

In addition – The crowning Innovation

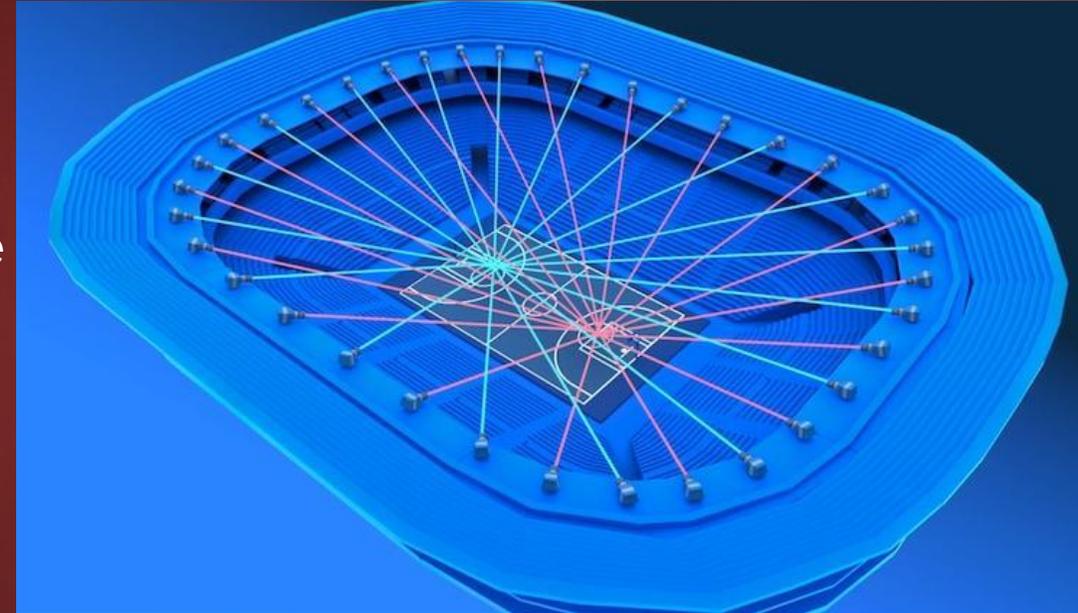
- Teaming with JCI & AccelTEX to create a form factor among 28 handrails antennas in the lower bowl that allows for:
 - Increased flexibility
 - ADA compliance
 - Doesn't compromise fan site lines!!



The Bucks and Intel True View

The Milwaukee Bucks and Intel Sports have partnered to deliver fans immersive media experiences through the installation of Intel True View at Fiserv Forum:

- New perspectives for fans with 360-degree highlights from Bucks home games during the 2019-20 camera season.
- Immersive media experiences give fans access to new angles,
- Ability to see new perspectives through the eyes of their favorite players and the opportunity to feel what it's like to be on the court.
- Fans will be able to analyze key moments from perspectives that were never before possible



Construction Success Factors

Multi-vendor environments

The key to a successful smart building is working with a provider that is vendor-agnostic and has the expertise and process methods to work across all technology vendors.

Construction Success Factor

Unified networks

If an existing building currently has information technology (IT) and operational technology (OT) on separate networks, they will have to be unified as part of the evolution to a smart building. The priorities and governance for the networks must merge at fundamental levels. Differences in priorities, teams, and policies of these networks make this merge difficult, but the challenge is not impossible to overcome.

Construction Success Factor

Unified data management

From data storage, to data tagging, to data presentation, to data analytics.

No efficiencies, business insights, or process improvements can be realized without unified data management.

Summary

Smart Environment Enablement (SEE)

- Design is feasible and timely
- Cost effective due to up to date products (reduces replacement cycle)
- Emerging state of art technology
- Lengthens the product life
- Integrates with upcoming business needs



The Abaxent Smart Environment Enablement team



Abaxent provides **nationwide reach** and helps corporations meet **Diversity Spend** requirements. We specialize in connecting customers with the resources they need for projects.
MBE/WBE/DBE Certified



Heartland Business Systems has been helping organizations meet their IT goals through customized hardware, software and service solutions for over 27 years.



As a media designer at the source, with in-houses presses; we provide low cost custom manufacturing of label stock. Plus pre-printed direct thermal, thermal transfer labels, POS receipt rolls, bar code scanners, printers, and supplies. – ZEBRA Certified Service Partner