



The Changing IT Landscape

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Pressures on Higher Education

- Reduced state support and higher tuition
- Increased competition (global, online, free access)
- Solution: “Virtualize”
 - Universities need to partner more (share courses, share infrastructure, share development with industry, ...)

Historical View: Enterprise Client Evolution

Today

Yesterday

Unmanaged
Fixed Client

- Security Challenges
 - Unmanaged
- Inefficient operations
 - Client-server

Device Managed
Fixed & Mobile Client

- Focus on TCO efficiency
 - "One size fits all"
 - Monolithic image locked to device
- Mainstream mobility
- Internet Computing

Evolving

Centrally Managed
Virtual Client

- CHV (DVC) & SHV (VDI)
 - Drive to centralized administration
 - Virtual workspaces
 - 1:many user/device
- Compute, collaborate & communicate
- Wireless broadband

Emerging

Cloud Managed
Client-aware

- Cloud Computing
- On demand computing
 - Elastic, ubiquitous
 - Virtual computing
- Device independent mobility (device aware)
 - N-screens
 - 3D Internet

Device Centric

User Centric





Top Issues Affecting University IT

- Big Data
- Research Funding
- Online Education
- Mobility
- Cloud
- Globalization



IT Directions for the University

- Shift IT (OIT & campus) to focus of supporting the mission, vision and goals of the university (and units).
- Shift away from home built, resource intensive hardware and systems **TO** automated, shared, efficient, effective solutions
- OIT provides common (commodity), cost effective and robust services (messaging, storage, HCP, hosting ...) – balance build, buy, outsource decision.
- Use governance to improve input and decision making
 - <http://oit.ncsu.edu/it-governance-at-nc-state>

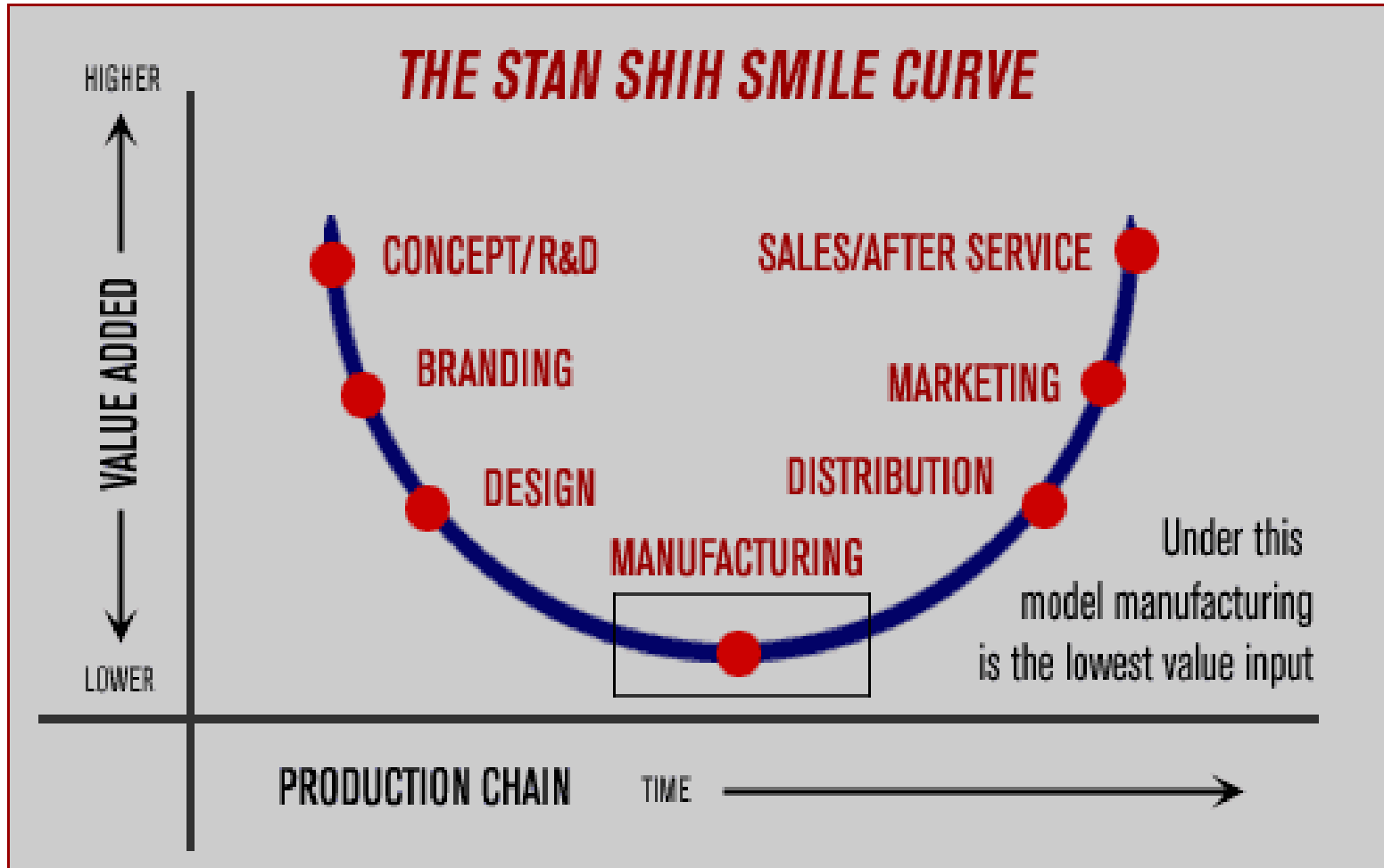


Concerns for University IT

- How to maintain critical expertise to support leading edge research?
- How to become close partners internally & externally? (Library, Distance Ed, Faculty)
- How to NOT become a commodity education provider? (stay on top of the value chain)



Work Where the Value Is



Stan Shih, Founder of Acer, Taiwan, 1992



Technology does not drive change
it enables change.

~ Source Unknown~