

Hyper Systems: A Technology Deployment Model for the Republic of Armenia

Abstract

Although the economy of the Republic of Armenia is growing at 13.7% annually, thousands of technology workers are leaving for brighter work opportunities elsewhere. How can we provide future in-country opportunities with sufficient promise to stem this erosion without excessively depleting capital or incurring monstrous debt?

Jason Paul Kazarian will argue the deployment of hyper systems, or systems so transparently integrated that customers incur only marginal (no fixed) cost to use them, can enable businesses to immediately improve profitability without the horrendous expense normally associated with high technology. In addition to the theory of hyper systems, we will explore immediately exploitable, practical examples. Other topics associated with hyper systems will also be discussed.

Topics

Each of the following topics is approximately ten to fifteen minutes long and will be modified to suit student interest and allowed time:

Product, Service, System, Hyper System: Some Practical Definitions

We all can cite examples of products, services, and systems. But what is a hyper system? The absence of fixed development or operational cost is one necessary constraint. We will discuss several others.

Micro-Credit: The Financial Analog of Hyper Systems

Three decades ago, the Grameen Bank in Bangladesh pioneered Micro-Credit, lending a fraction of a standard loan to multiple small businesses. Making capital available to the working poor has increased the city's standard of living. Hyper systems use this fractional multiplier concept, too.

As Clear as Glass: Interface Integration and Transparency

From the customer's perspective, the major system cost drivers are human oriented: training expense is one. Business interruption due to pilot error is another. Eliminating these costs through custom interface integration is necessary to eliminate the fixed cost of a hyper system deployment.

Practical Example: A Hyper Accounting System

Most Armenian businesses are in no position to spend 100K AMD on the equipment, software, and training necessary for a computerized accounting system. But what if we deployed a hyper accounting system to support twenty other businesses? What would the technology of this system look like? What are the potential revenue models? How would we maintain interface transparency across multiple customers?

Group Exercise: External Technology as a Hyper System

Reactrix, a Redwood City, California based company, delivers interactive media using patented technology to malls throughout the world. Building owners receive a percentage of advertising revenue for hosting a Reactrix system. How would we use the hyper system concept to bring this technology to the Republic of Armenia?

Corporate Culture and Quality

Although technology is important, it's not more important than attracting and retaining customers. Davids can learn a lot from Goliaths. Can serious hyper system developers succeed without some form of apprenticeship?

Do the Math, or Theory Makes Practice Successful

What do boolean algebra, graph theory, and finite automata have in common? People who master these topics develop quality hyper systems. People who don't, don't.

The World is to Beating a Path to Your Door, or Damn the Diaspora: Full Speed Ahead!

Once upon a time, second and third world countries were dependent on the first world. But no longer: thanks to globalization, developing countries have created their own market, one that attracts serious capital. And you can bid for that capital in your pajamas. Having a hyper system will help, too.