

Computer Aided Planning Environment for eGovernment Agility

Executive Summary

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August 20, 2011

Outline

- What is the Planning Environment
- What problem does it attempt to solve
- What does it do
- How is it actually used in practice
- What are the main results
- What is the current status
- What are the future directions

What is the Planning Environment

- An advanced Website with intelligent decision support capabilities for Strategic Planning, Acquisition, Controls & Education (SPACE)
- Goal: Accelerate economic growth and improve quality of life through e-initiatives (e.g., eGovt, eBusiness, eCommerce and eCity)
- Part of United Nations eNabler Project - enable developing countries through ICT (information and Communication Technologies)



Users
(Beginners,
Managers,
Specialists,
Students,
Educators,
Researchers)



SPACE
(Strategic Planning, Acquisition,
Controls & Education)
Environment



- Information, analysis
- Tutorials, online courses
- Business Plans
- Detailed Technical Plans
- Integrated Architecture
- Project Plans
- RFPs
- Policies, Audit Checklists, etc

What problem does it solve

- eBusiness, egovernment, and eCommerce initiatives have resulted in tremendous economic development and operational efficiencies around the globe.
- Newer initiatives in eCities (e.g., eTokyo, and eSingapore in developed countries and eHetauda in developing countries such as Nepal) are creating new economies
- Unfortunately, many e-initiatives fail , i.e., they are never used by the intended users (Standish report: success is 18%, similar surveys indicate 15 to 30% success)
 - Failures in developing countries are much much higher .
 - Failures in developed countries are also much higher in the underserved public and private sectors (e.g., local govts, small to medium businesses)
 - Failures occur due to re-invention of the wheel throughout the system life cycle (Learn-Plan-Do-Check cycle) and not one problem -- see next slide
- For success, the entire life cycle activities must be executed properly – Our approach

Challenges in Launching Initiatives

The Learn-Plan-Do-Check Cycle

Plan

How To Develop
Customized Plan
For the Service?

Do

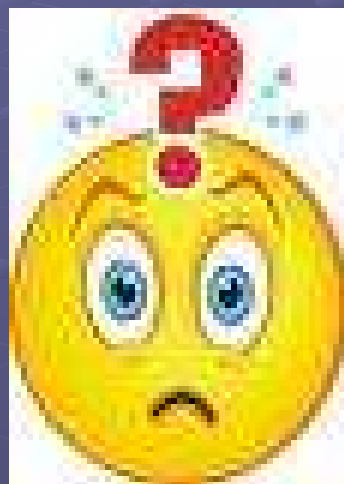
How to
Successfully
Execute the
Plan?

Check

How To Monitor
And Control ?

Learn

What Services
are Needed?



The User

- How To Do Everything Without Re-inventing the Wheel
 - How to replicate success stories and best practices
 - How to improve successes
 - Is there a “One Stop Shop” ?

SPACE: a One Stop Shop to provide the answers

What Does it Do

The main objective: Improve economic conditions by successfully Launching egovt, ebusiness, ecommerce and ecity initiatives



Users
(Beginners,
Managers,
Specialists,
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Educators,
Researchers)



SPACE
(Strategic Planning, Acquisition,
Controls & Education)
Environment
(Directory, Knowledge Repositories,
Planner)



- Information, analysis
- Tutorials, online course
- Business Plans
- Detailed Technical Plan
- Integrated Architecture
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Key Characteristics:

- Advanced Website with intelligent decision support capabilities
- Currently provides 50+ services in eGovernment, eHealth, eLearning, eBusiness, eCommerce, e-Welfare and others
- Extensive international support (information about 200 countries)
- Supports informational, transactional and realtime services
- Based on latest thinking in AI (artificial intelligence) and patterns
- Supports a computer aided consulting model

How is it Actually Used



General
Users



Users involved
In Planning

Directory

Repositories

- . Meta Portal
- Simulations/Tools
- Monitoring & Controls
- Education & Capacity Building

PLANNER

P0: Country Information

P1: Service Information

P2: Plan Generation

P3: Plan Implementation

P4: Monitoring &
Control

Local
Experts,
Consultant
s,
Systems
Developers



Customized
Plans, Requirement
Documents, Project
Management Info
RFPs

External
Resources

Patterns
Repository

What are the main results and lessons learned

- Endorsed by 140 countries and 20 world class organizations such as the World Bank, the Red Cross, Microsoft and others
- Currently being used by 10 countries to launch e-initiatives in entrepreneurship, healthcare, education, e-commerce, e-govt, interagency communications, public safety and welfare
- Significant reduction of time (from 4-5 months to 2-3 days) and increased chances of success
- E-initiatives (e-commerce, e-entrepreneurship, e-education) result in significant economic development
- eConsulting model works very well and scales nicely in international assignments
- Information exchange between agencies (G2G, G2B) vitalize industrial growth
- eVillage and eCity initiatives have great potential for economic growth
- Education and “Capacity Building” is a major hurdle to deployment of e-services

What is the current status

- Beta Version available for Testing Now
- Has been and is being used in 10 countries
- Definitions for all (about 200) Countries
- Support almost 50 services spanning health, education, agriculture, economic development for different delivery mechanisms (web, wireless)
- Suggest policies, technologies and project management
- Support acquisition through Buy, Rent, Outsource, Develop, Extend (BRODE) options
- Project management with dashboards, quality controls and governance
- RFP Center to Generate RFPs
- Advanced Capabilities (Composites, Service Factory, eCities)
- Education and Training: through Harrisburg University
- Collaborations and Partnerships (Govt Technology Inst)

What are the future directions

- **Short Range (Jan 2012): Production version**

- **Long Range (2012-2015)**

- One release per year for 3+ Years
- More users from more countries
- Support for more languages
- Support for mobile devices (App Stores)
- More services and more patterns
- Increased Focus on AI (Artificial Intelligence)
- Extensive use of GIS for location based services
- Extensive support for strengthening private sector
- Broader coverage (local, state, federal, international)
- Automatic generation of business plans
- Games and simulations based on services
- More intelligence (deep algorithms) – grad research
- Extensive eConsulting practice
- Extensive Education & Capacity Building support (HU, GTI, Bahrain EGA)

Key Points & Conclusions

- Not just talk: Prototype now, available Now
- One stop shop: Covers the entire Learn, Plan, Do, Check cycle
- Other tools are too narrow (only cover one aspect), or too expensive (\$35K per user) or focus is on traditional “back-office” systems (e.g., billing)

