

Architecting for Disaster Preparedness

Provides Relief Plus Tool Suite (PRP)

Prepared for:
NDIA Conference
24 October 2012



AGENDA

- PRP Suite
- A Look at the Assessment of Disaster Readiness Tool (*ADRT*)
- Conclusion

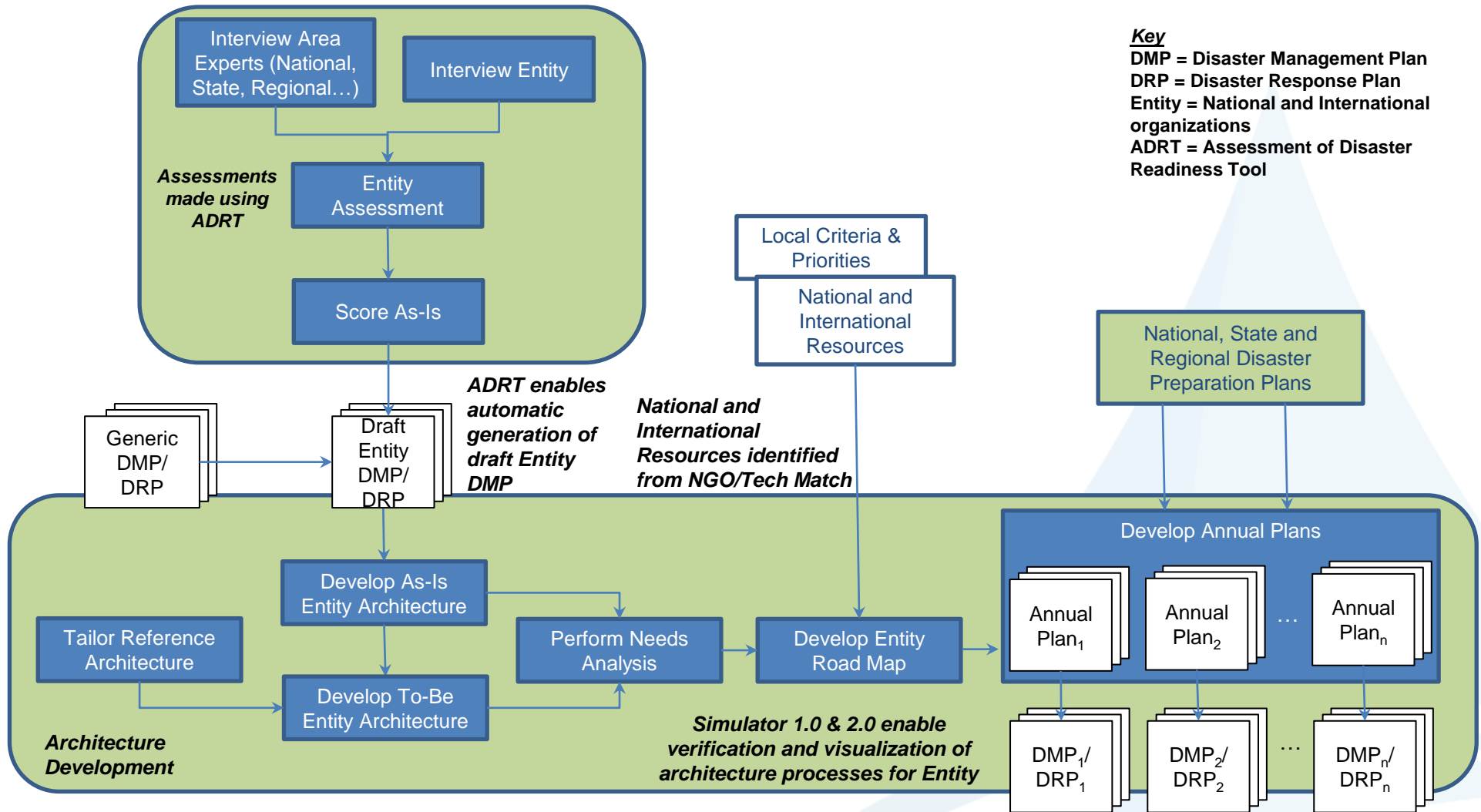
PRP End Goal

- The PRP Tool Suite is now being developed and customized by SPEC Innovations for National and International Entities (*Localities, Providences, States, Regions, Nations, Corporations and other organizations...*) to provide them the means to assess their readiness and resiliency to deal with natural and man-made disasters
 - *the original version of the tool was developed, under a different name, for the Army to assess Partner Nations' readiness and resiliency and that contract has now been fulfilled*
- The end goal is to provide an objective assessment of an Entity's readiness and resiliency level that is then used to help create an annual development plan for the Entity that will assist them in achieving self reliance during times of disasters.
- The tools are for use by the Entity to create development plans that can be customized by the Entity based on their own assessments, resources and capabilities.
- A Ready and Resilient Entity will help reduce the disaster's impact on their citizens and decrease their disaster response and recovery dependency on other governmental and non-government organizations.

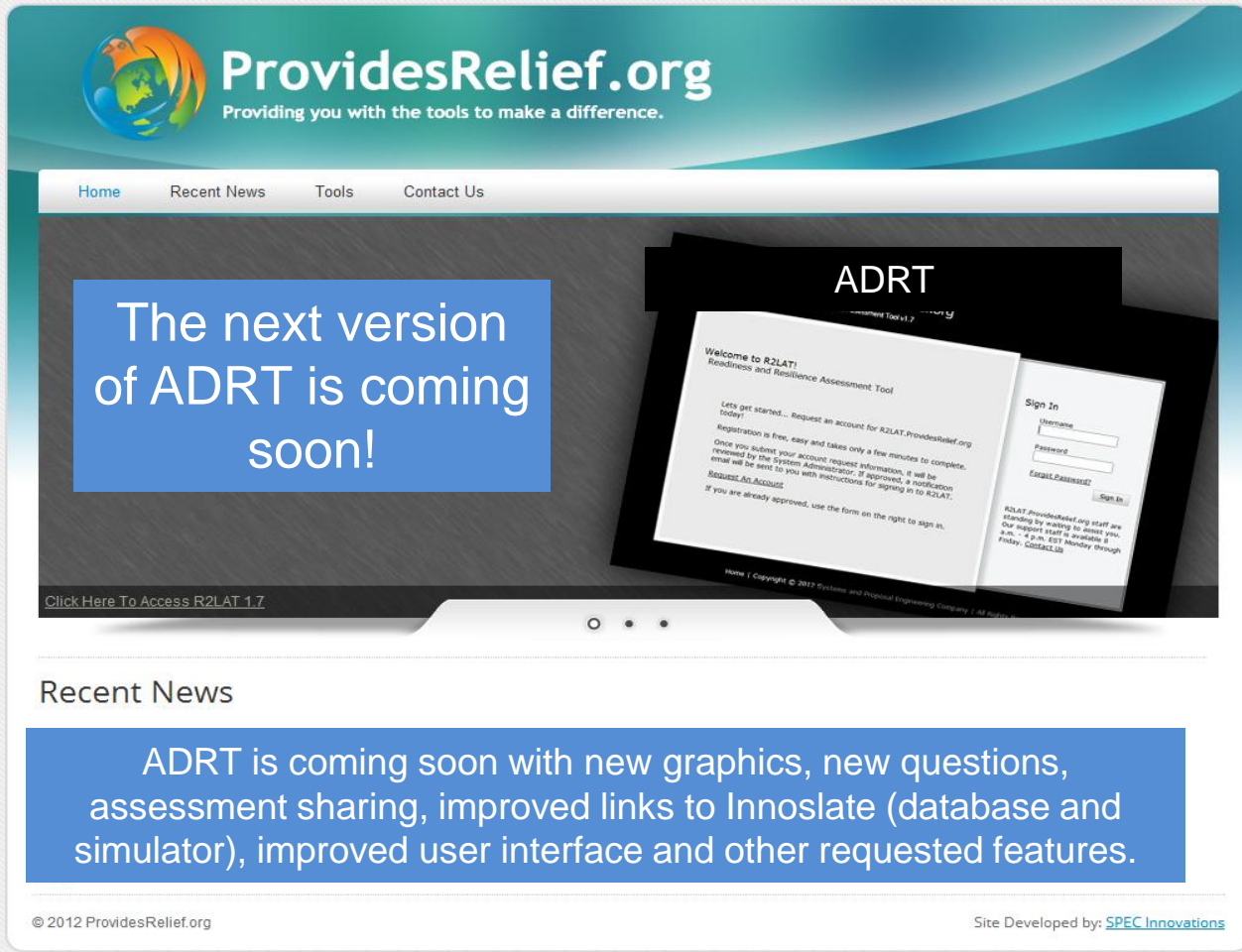
PRP Tool Suite

- **Providesrelief.org:** The centerpiece of the PRP project providing access to disaster data, the PRP Tool Suite and third party tools
 - **Integrated Data:** Providesrelief.org will integrate data from commercial, government and non-profit sources to give context to disaster information
 - **Integrated Tools:** Providesrelief.org will serve as the hub for the PRP Tool Suite and other third party tools

Applying the PRP Suite of Tools



ProvidesRelief.org Website



The screenshot shows the ProvidesRelief.org website. The header features the logo and the text "ProvidesRelief.org Providing you with the tools to make a difference." Below the header is a navigation menu with "Home", "Recent News", "Tools", and "Contact Us". The main content area is dominated by a large banner for the ADRT (Assessment, Decision, and Response Tool). The banner includes a blue box with the text "The next version of ADRT is coming soon!" and a smaller image of the ADRT interface. Below the banner is a "Recent News" section with a blue box containing the text: "ADRT is coming soon with new graphics, new questions, assessment sharing, improved links to Innoslate (database and simulator), improved user interface and other requested features." At the bottom of the page, there is a copyright notice "© 2012 ProvidesRelief.org" and a footer "Site Developed by: SPEC Innovations".

Features:

- Main Page Slideshow
- Recent News Feed
- Contact Us Form
- ADRT Banner Slide and Links
- NGO/PVO Match Banner Slide
- Latest Disaster Alerts Map Banner and Tool
- www.providesrelief.org

ProvidesRelief.org Tools



ProvidesRelief.org

Providing you with the tools to make a difference.

[Home](#)

[Recent News](#)

[Tools](#)

[Contact Us](#)

Disaster Alerts

ADRT

**Latest Disaster Alerts
map now available on
ProvidesRelief.org!**



[Click Here To Access Disaster Alert Map](#)

Recent News

www.providesrelief.org/#

ProvidesRelief.org Website Prototype



ProvidesRelief.org

Providing you with the tools to make a difference.

Home Recent News **Tools** Contact Us

Latest Disaster Alerts

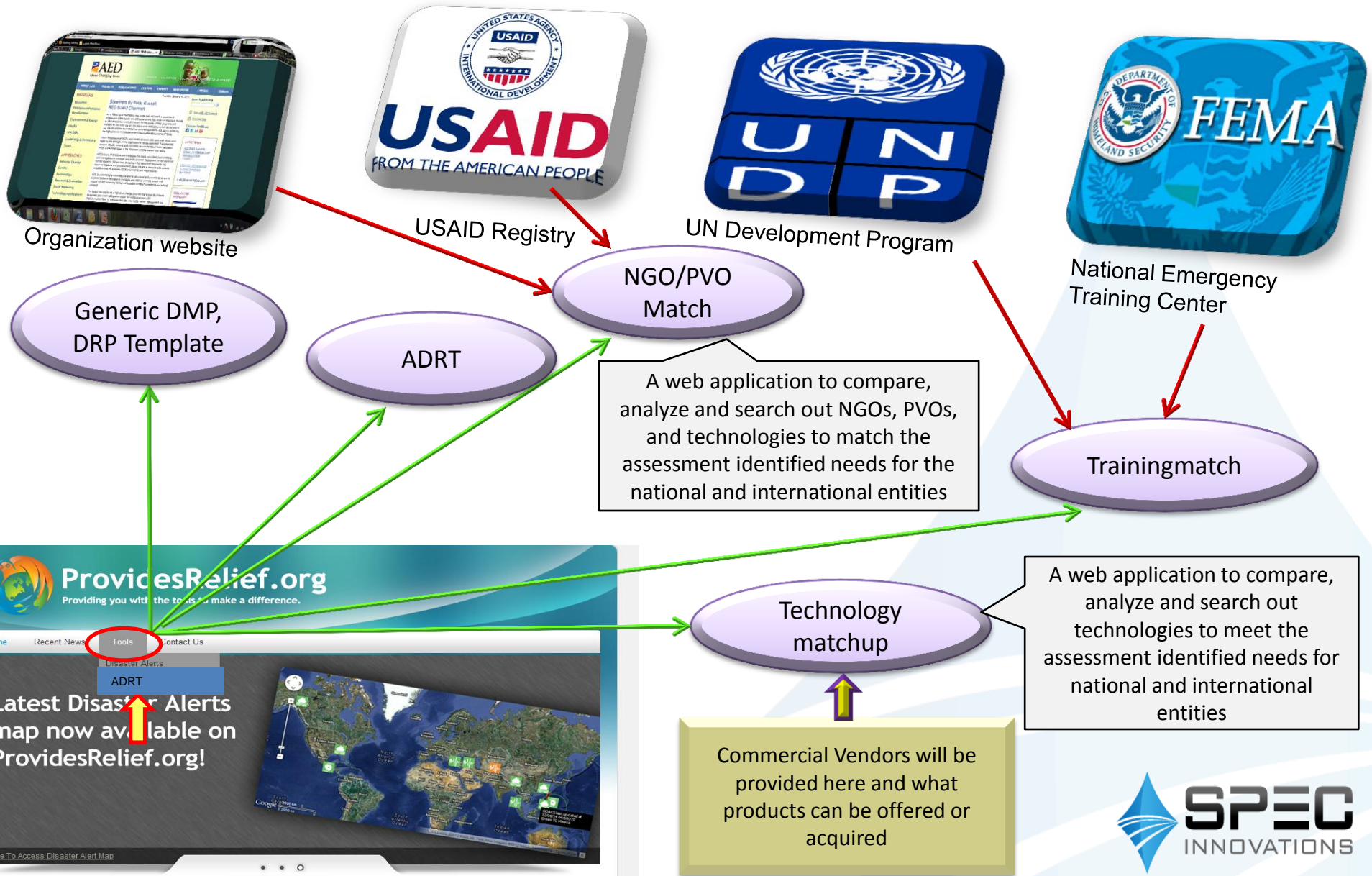


Latest Disaster Alerts Map Tool mirrors output of [GDACS](#) website. (shows updated alerts for floods, hurricanes, tropical storms, and earthquakes)

Source: [GDACS](#)

[Edit](#)

Tool Sources



Tools - ADRT

ADRT : *A readiness and resilience level assessment tool for national and international disaster preparedness*

- *“Infinite Scalability”*: ADRT currently resides in the cloud environment and offers scalable assessments
- *Collaboration*: Will offer assessment sharing capability
- *Reports/Export*: Will offer DMP and DRP reports, as well as exportable results
- *Interface Improvements*: Interface will be optimized for the ADRT assessments
- *Desktop version*: Current desktop version allows portability where internet service is not available. Assessments will be performed and then uploaded to the cloud environment
- Assessment questions are tailor-made for the type of assessment being performed



1. Planning

2. Preparation

3. Identification

4. Response

5. Recovery

6. Risk Management

Start New Assessment:

Readiness and Resilience Assessment Tool for

National and International
Entities

This assessment is composed of 206 questions that will take approximately 3 hours to complete, however your time may vary.

Please read through every question completely and answer thoughtfully.

If you are unable to complete the assessment all at once you may stop and resume the assessment at a later time.

Begin



1. Planning

2. Preparation

3. Identification

4. Response

5. Recovery

6. Risk Management

1.1.1 Country/State

1.1.1.1 County/State - Details

1.1.1.1.a Is the Team fully funded for the next 12 months?

[Select One]

- Yes, the team is fully funded
- No, the team has no funding
- Limited, the team has some funding
- N/A, this question does not apply

Help Information: Line item budgeting of funding provided by the PN government to equip and train the DMT in a systematic manner.

Source: UNDMT, FEMA

Associated Frameworks: Hyogo

Back

1.1.1.1.b Is the Team fully staffed with representatives from the designate...

1.1.1.1.c Has a Team Leader been designated by the appropriate governm...



Assessment Results:

Percent Ready / Resilient:



Results indicate a number of readiness and resilience needs.

Resilience History:



This is your first result set.

Areas Identified as Needs:

1.1.1 Have you established a Disaster Management Team (DMT)?

Need Identified

0.0 of 2 Pts Earned

0%

2.2.2 Do you have a Provincial-level DMP? [Sign In Screen](#)

Need Identified

0.0 of 2 Pts Earned

0%

Tools - Discrete Event Simulation

- Discrete Events Simulation: *An national and international disaster scenario simulator*
 - Simulator 2.0: *An upgrade to the 1.0 simulator that provides model animation and analytic reports*
 - “Infinite Scalability”: *The simulator spawns servers and resources on demand to simulate systems of systems*
 - Live Communication: *Simulation results are pushed from the cloud to the client’s computer directly in real time*
 - Complex Construct Support: *Syncs, Loops, and Decision points are supported*

Tools – NGO, Tech & Training Match

- Compare and analyze commercial technologies, and PVOs' and NGOs' capabilities, equipment and services and training sources that could meet assessment identified needs for the national and international entities
- Scalable: Cloud integrated for on-demand scalability

Protection Innovations Control Panel Welcome, [Chris Ritter](#) [Log Out](#)

[Home](#) [ABOUT](#) [CONTACT](#) [PRIVACY](#)

Technologies List

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Actions		Delete	Approve	Deny		
Most Recent	Title	User	Status	Date Modified		
View PDFs	<input type="checkbox"/> Paladin Network Detection and Analysis Tool	morrison	Approved	08/16/2011		
Search	<input type="checkbox"/> AN/WQX-2	mcampbell	Approved	08/15/2011		
Uncategorized	<input type="checkbox"/> Structured Application Protection Process (SAPP)	anpotter	Approved	08/15/2011		
Upload Technology	<input type="checkbox"/> Armor for Ballistic, Blast, and IED protection	DynamicDefense	Approved	08/15/2011		
List Your Technologies	<input type="checkbox"/> Parcel X-Ray Scanner	mcampbell	Approved	08/15/2011		
Command & Control	<input type="checkbox"/> Deployable Cyber Defense System (DCDS)	anpotter	Approved	08/15/2011		
Area Wide Alert/Notification	<input type="checkbox"/> Boat-Trap	mcampbell	Approved	08/15/2011		
Operations Center	<input type="checkbox"/> Integrated Swimmer Defense	bblackmon	Approved	08/15/2011		
Decision Making System	<input type="checkbox"/> SentinelNet Software	mcampbell	Approved	08/15/2011		
C4I	<input type="checkbox"/> Silver Shroud	mcampbell	Approved	08/15/2011		
Installation Protection	<input type="checkbox"/> Underwater Sentry	franklinsu	Approved	08/15/2011		
Waterside Protection	<input type="checkbox"/> Render Safe Plasma Program for IEDs, Landmines,...	mcampbell	Approved	08/15/2011		
Threat Awareness	<input type="checkbox"/> Flyswatter	mcampbell	Approved	08/15/2011		

Existing Resource for Modification to the Cloud Environment

NGO/PVO Data Elements

- Organization Name
- Location
- Years in service
- Functions of expertise (Initially using USAID registry) such as Basic Health
 - Delineated to specific levels of expertise e.g., First Aid, CPR, Simple fractures etc...
- Areas/Regions of Operation
- Languages Spoken
- Funding Source
- Contact information including:
 - Website
 - Phone number
 - Fax number
 - Physical Address

Tools - Management & Response

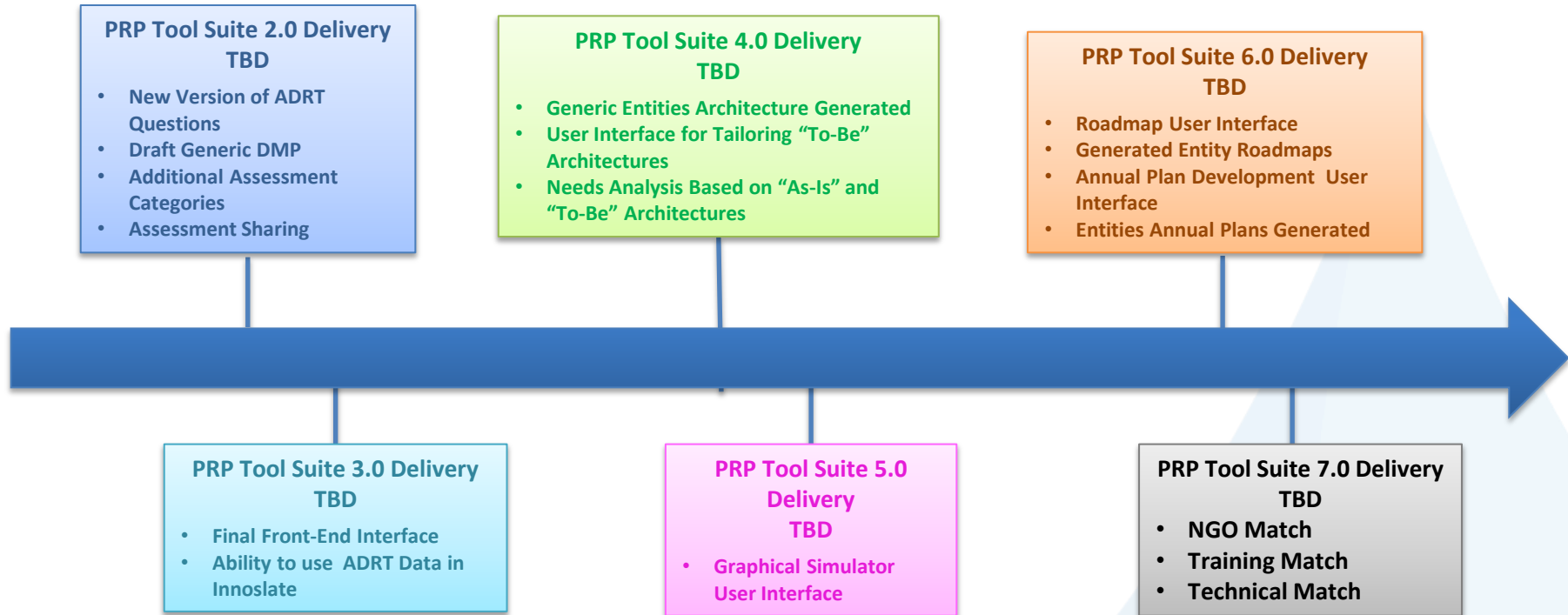
DMP

- Generic Template for Pre-Event Planning and Long Term Preparation
- Planning for every type event that can occur
- Works with DRP for pre-event steps: Identify Threats and Assets and Pre-Occurrence Preparation
- Post event planning is for response planning
- Tailorable to meet specific events commonly experienced by Entity

DRP

- Generic Template for post event responses including initial damage assessment
- Overlaps some pre-event planning steps from DMP: Identify Threats and Assets and Pre-Occurrence Preparation
- Identifies resources needed for every event that can occur
- Can be tailored by Entity to allocate common/trusted resources used by Entity

PRP Tool Suite Project Schedule

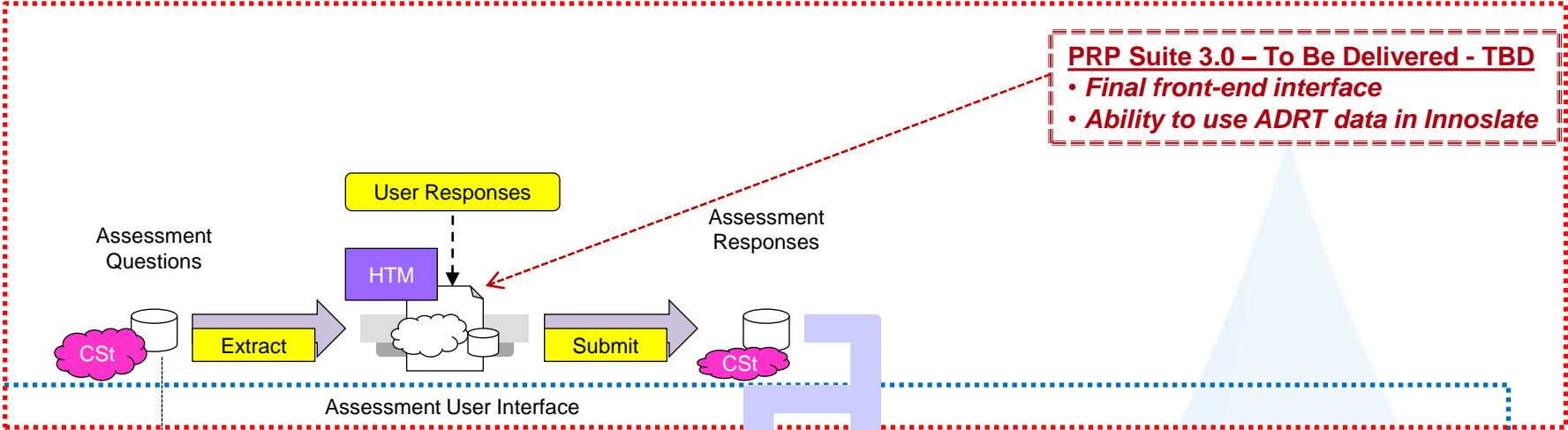


Note: The deliverable dates are based on funding for the project.

PRP Suite Software Architecture (1 of 2)

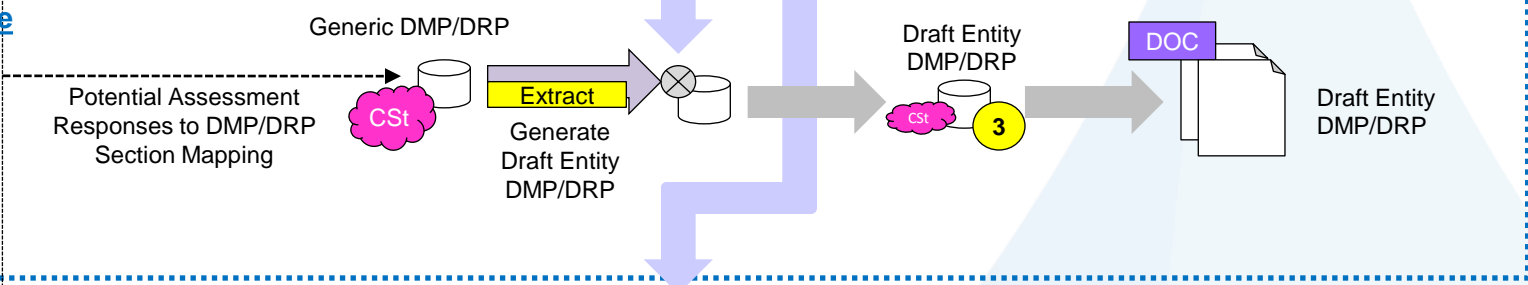
PRP Suite 3.0 – To Be Delivered - TBD

- Final front-end interface
- Ability to use ADRT data in Innoslate



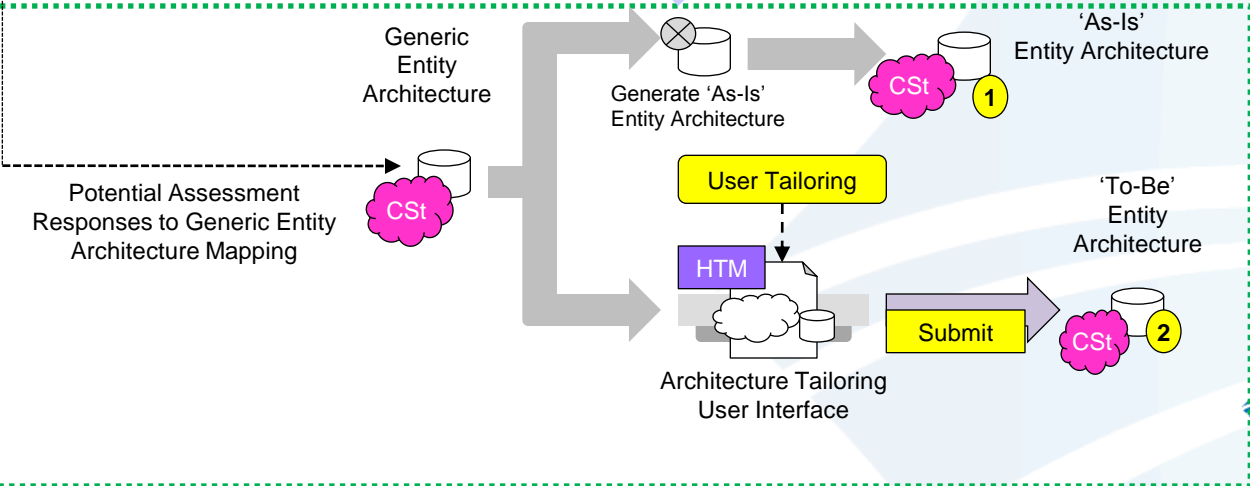
PRP Suite 2.0 – SW package to be Delivered - TBD

- New version of ADRT questions
- Draft Generic DMP
- Additional Assessment Categories
- Assessment Sharing



PRP Suite 4.0 – SW package to be Delivered - TBD

- Generic Entity Architecture generated
- User interface for tailoring “To-Be” architectures
- Needs Analysis based on “As-Is” and “To-Be” architectures



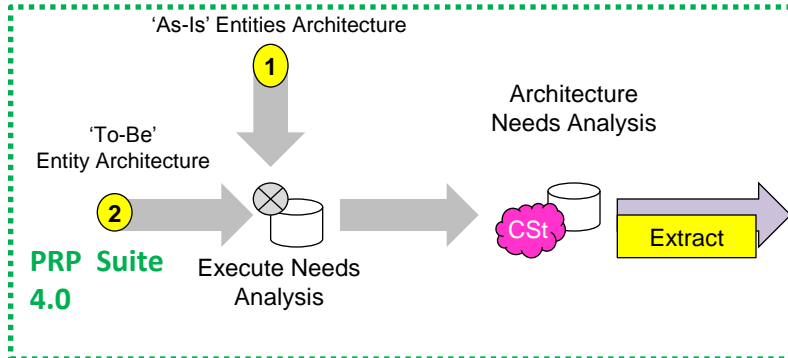
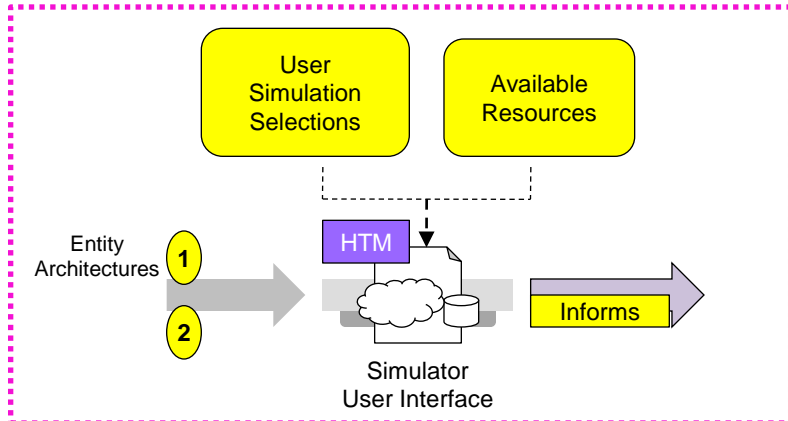
Legend:
 CSt – Cloud Storage
 HTM – Web-Based User Interface
 DOC – MS Word Output



PRP Tool Suite Software Architecture (2 of 2)

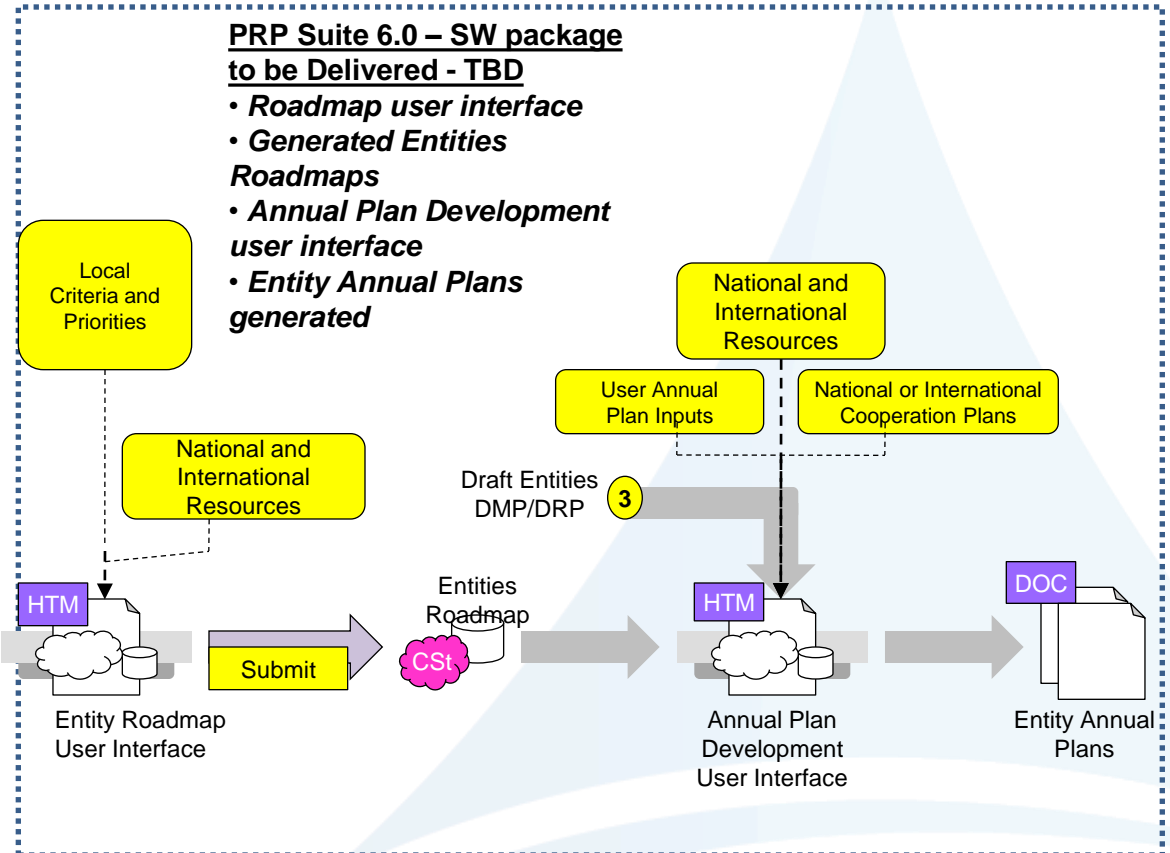
PRP Suite 5.0 – SW package to be Delivered - TBD

- Graphical Simulator User interface



PRP Suite 6.0 – SW package to be Delivered - TBD

- Roadmap user interface
- Generated Entities Roadmaps
- Annual Plan Development user interface
- Entity Annual Plans generated



Legend:

- CSt – Cloud Storage
- HTM – Web-Based User Interface
- DOC – MS Word Output

Contact Information

➤ John Viar, VP

SPEC Innovations

John.viar@specinnovations.com

571-485-7802 (SPEC office phone)

540-653-8730 (Dahlgren Office phone)

434-841-1374 (cell phone)



Questions?

