

Accessible Collaboration Tools.



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A horizontal banner with a blue background. On the left, two white doves are flying upwards. In the center, a large, glowing globe is partially visible. To the right, there is a stylized city skyline with various buildings and a prominent white archway. The text "Unrealized Potential" is written in a bold, black, sans-serif font across the middle of the banner.

Unrealized Potential

- Collaboration and Telecollaboration tool are reinventing the workplace and productive social interaction.
- Can be barriers or pathways to accessible collaboration.
- Electronically mediated interaction has far greater potential for accessibility than traditional interaction.
- A key problem is that collaboration tools are interaction group based (only as accessible as all the pieces) and the playing board is usually chosen by someone else.



Telecollaboration is invading:

- **Employment**

- Local
- Global partnerships

- **Education**

- Webinars
- Distance education

- **Social & Family Connections**

- “My brother lives in Germany so we Skype once a week.”

- **Family gatherings**

- Birthday parties
- Weddings
- Holidays

A blue-themed banner for telecollaboration. It features a stylized city skyline with various buildings, a large white archway, and a bright sun or moon in the background. Two white birds are flying on the left side. The word "Telecollaboration" is written in a bold, black, sans-serif font across the middle of the banner.

Telecollaboration

- **Many Barriers**
 - Visual only information
 - Auditory only information
 - Physically challenging controls
 - Complex presentations
 - Language issues
- **Solutions can pose new barriers**
 - Two channel problem
 - Spatially
 - Temporally
 - Adding complexity
 - Covering Information
 - Causing information to be missed

A blue-themed banner for 'Telecollaboration Tools'. It features a stylized city skyline with various buildings, a large white archway, and a bright sun or moon in the background. Two white birds are flying on the left side. The title 'Telecollaboration Tools' is written in a bold, black, sans-serif font across the center of the banner.

Telecollaboration Tools

- Solutions identified so far and being explored
 - **Captioning**
 - Repositionable Captioning
 - Caption Identification
 - RtF-CCC (Crowdsourced Caption Correction)
 - Low cost captioning
 - **Audio Description on Demand**
 - **Local Slide synchronization**
 - **Assistance on Demand**
 - Local
 - distant
 - **Time Warp**
 - **Touch and Read**

A blue-themed banner for a presentation. On the left, two white doves are flying upwards. In the center, a large, glowing globe is partially visible. To the right, there is a stylized city skyline with various buildings and a prominent white archway. The title 'Telecollaboration Tools 2' is written in bold black text across the middle of the banner.

Telecollaboration Tools 2

- Solutions identified - continued
 - **Touch and Explain**
 - **Preview / Screening tool**
 - **Expressive Language Repair**
 - **Simplified Interfaces**
 - **Braille Support**



Tool-Tray System

- OATTS Open Access Tool Tray System
 - **Modular**
 - **Open source and open platform**
 - **Supports free and commercial widgets**
 - Connected to free or commercial services
 - **Works with cooperating and non-cooperating telecollaboration software**



Accessible Cloud based Collaboration and Collaborative Development Tools



What does Access To Cloud Technologies Mean

- Nothing inaccessible about the cloud per se
 - Like electricity, or the Internet (itself) it is a pure technology without a human interface
 - Unless you actively filter or selectively impede the content flowing over / through it it doesn't present access barriers
- The services and applications in the cloud however do have human interfaces and can present barriers
- Best Guidelines for these services and applications are the Web Content Accessibility Guidelines (WCAG 2.0)
 - This is what the Access Board is proposing both for all web based docs and software – AND for non-web docs & software



Strategies for Meeting WCAG 2.0 on the Cloud

1. Meet WCAG using standard techniques for web applications
2. Provide extras access settings on the web application to meet or go beyond
 1. **Setting for Larger Fonts**
 2. **Setting for higher Contrast**
 3. **Setting for Simpler layout/design**
 1. Using more screens
 2. Providing option for fewer commands/services
3. Provide an interface socket (API) connected to a preference driven Individual User Interface Generator



Keys to success

- Need to Make things easier, faster, cheaper for mainstream developers
 - Less they need to do
 - More tools or components to work with
 - Doable without requiring designers to be accessibility experts
 - Faster so it doesn't slow development process
 - Cost less (all around) so business case is easier to make
 - Higher adoption and use for what they do

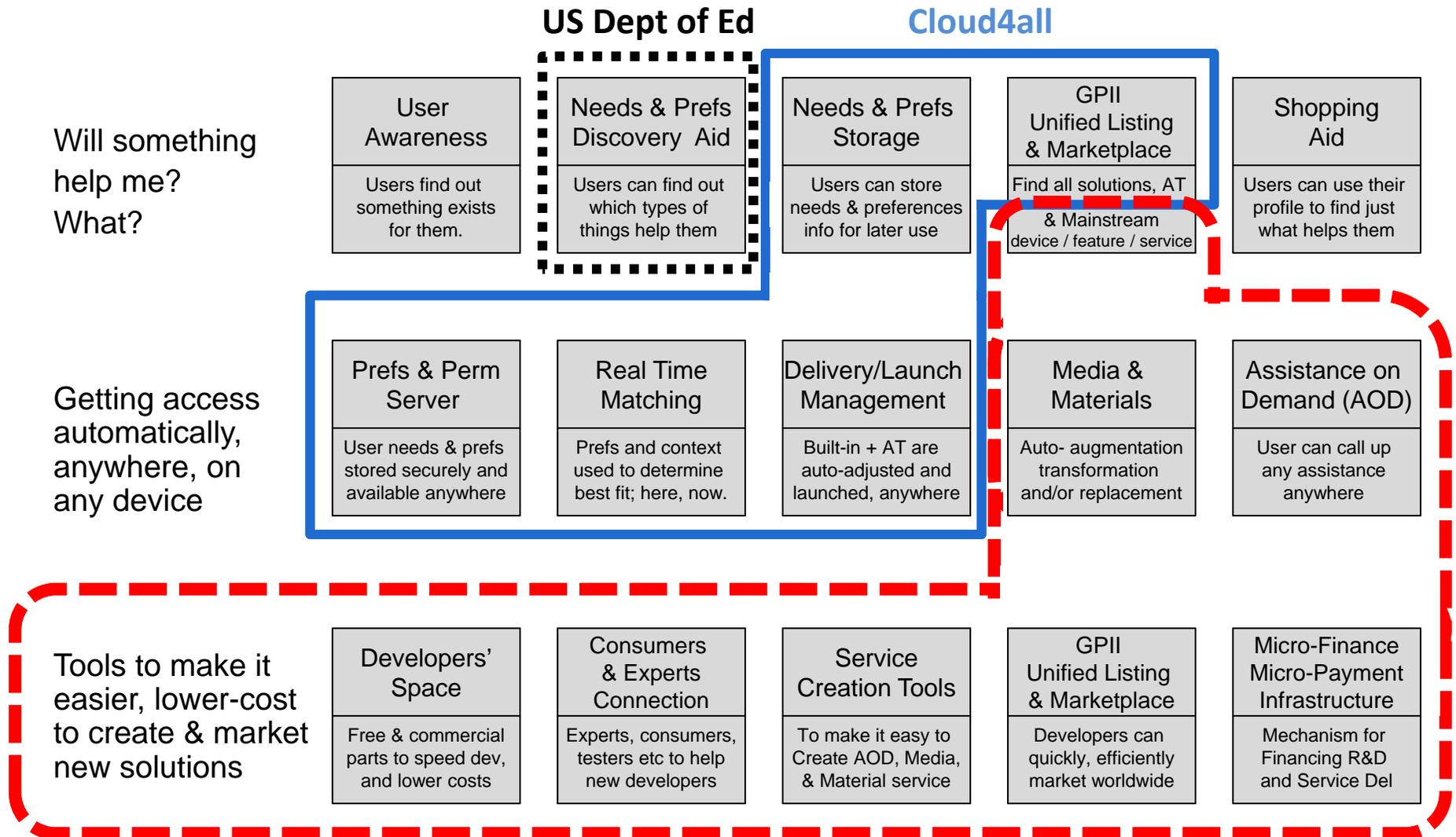


These goals are part of the GPII

Three goals of GPII

- 1. Make it easier to discover solutions for an individual**
 - 2. Make it possible to apply the solutions anywhere on any device or software**
 - 3. Make it faster, easier, and much less expensive to create solutions**
- #3 focuses on AT and mainstream developers
 - #1 and #2 also important though:
 - adoption and use of mainstream access features
 - **AND** additional purchases of product due to access are important motivators for industry to add access

Major Components of GPII





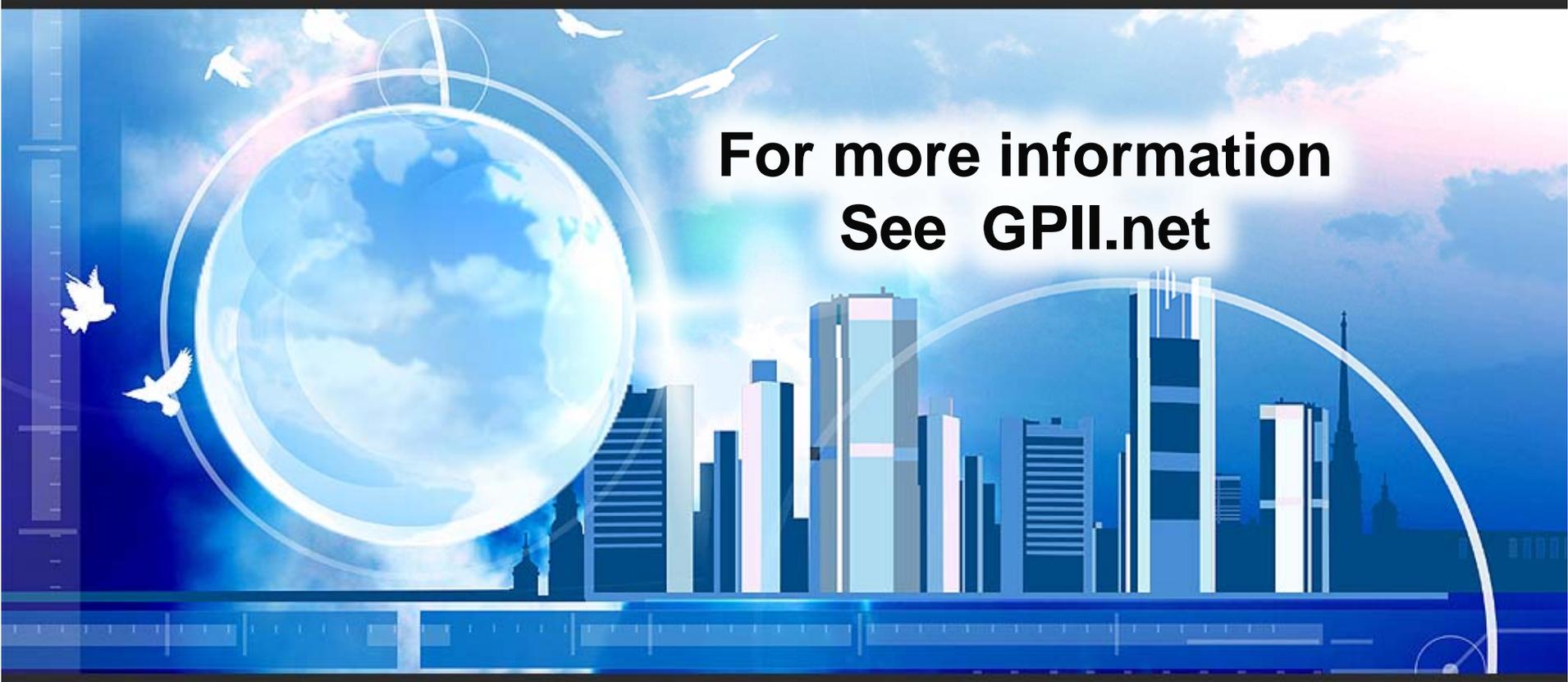
- **Over 75 members in the Raising the Floor Consortium**
 - **Industry**
 - **Universities**
 - **Organizations**
 - **Consumer Groups**
 - **NGOs**
- **International organization; HQ in Geneva**
 - RtF-Int' | RtF US and RtF Canada





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- **A number of major grants in US, Canada, and Europe**

Thank You

A blue-toned graphic featuring a globe, a city skyline, and flying birds. The globe is on the left, surrounded by several white birds in flight. To the right is a stylized city skyline with various skyscrapers. The background is a bright blue sky with clouds. The text "For more information See GPII.net" is overlaid on the right side of the graphic.

**For more information
See GPII.net**

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The opinions herein are those of the authors and not necessarily those of the funding agency.





More information on the GPII



What if

**anytime someone approached a device,
that device would automatically change
into a form that people could understand, and use?**



Video at <http://tinyurl.com/gpiivideo>

Imagine if you could pick up any device,



The transformation doesn't have to just be something simple like larger fonts or captions

It could be an entirely transformed interface to fit the needs and abilities of a user.



Imagine

An elder, who has trouble with memory and technology

**-- but wants to communicate
with their grandchildren**



Recycle Bin

Skype™ [2] - greggvand

Skype Contacts Conversation

Gregg Vanderheiden



Add video or write a message to friends

\$ 7.38 Skype Credit

New Search Contacts, Groups

Contacts Conversations

- Aaron Leventhal Taking a small break
- Gerard F. Corbett
- Gunela Astbrink
- Larry L. Lewis, Jr.
- Michael Cooper
- Rebecca Perkins
- Rich Schwerdtfeger Back at work
- Sofia Celic-Li
- WJR Consulting Inc.
- Alain MOBILE
- Alain Office 386 399 conf rm
- Andy Kaiser

14,079,126 people online

New notifications

Call phones

Directory

Gmail - All Mail - greggv2@gmail.com - Windows Internet Explorer

https://mail.google.com/mail/?ui=

gmail.google.com

Google gmail.google.com

Favorites Suggested Sites eBay Sony eBook Library SonyStyle Web Slice Gallery

Gmail - All Mail - greggv2@gmail.com

Gmail Calendar Documents Web Reader more

greggv2@gmail.com | **New! Priority Inbox** Beta | Settings

Gmail by Google

Search Mail Search the Web

Mail

Contacts

Tasks

Compose mail

Inbox

Buzz

Sent Mail

Drafts

All Mail

Spam

NYT Travel - [Itineraries: Hotel Chains Try Training With Improv and iPods](#) - 20 hours ago

Archive Report spam Delete Move to Inbox Labels More actions

<input type="checkbox"/>	me	water in holes - pump
<input type="checkbox"/>	me	Please see me about our mail lists
<input type="checkbox"/>	me	rebecca. see me about this when you get I
<input type="checkbox"/>	me	Time to talk?
<input type="checkbox"/>	me	How is the Salvendy chapter update comir
<input type="checkbox"/>	me	(no subject)

Done

Internet | Protected Mode: On

picasa photo viewer

Share

SonyStyle Web Slice Gallery

Page Safety Tools

GreggV2@gmail.com | My Account | Sign o

Help

Recomm

Managi

Importir

your co

Getting

Getting

Album F

Using P



8:59 PM

9/7/2010

Picasa 3.6 New Features Picasa 3.6 has improved name tags, a feature based on the same



The Big Three

WHAT IF...

1. Everyone could easily find out what would help them
2. Any device that a person encountered would instantly change into a version they could use and understand....
3. It cost developer/vendors much less to develop, market , and support new solutions – internationally
–and even consumers and clinicians/teachers/family could participate in the process

Major Components of GPII

**Will something
help me?
What?**

**Getting access
automatically,
anywhere, on
any device**

**Tools to make it
easier, lower-cost
to create & market
new solutions**

Major Components of GPII

**Will something help me?
What?**

User Awareness
Users find out something exists for them.

Needs & Prefs Discovery Aid
Users can find out which types of things help them

Needs & Prefs Storage
Users can store needs & preferences info for later use

GPII Unified Listing & Marketplace
Find all solutions, AT & Mainstream Device / feature / Service

Shopping Aid
Users can use their profile to find just what helps them

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**Will something help me?
What?**

User Awareness	Needs & Prefs Discovery Aid	Needs & Prefs Storage	GPII Unified Listing & Marketplace	Shopping Aid
Users find out something exists for them.	Users can find out which types of things help them	Users can store needs & preferences info for later use	Find all solutions, AT & Mainstream Device / feature / Service	Users can use their profile to find just what helps them

Getting access automatically, anywhere, on any device

Prefs & Perm Server	Real Time Matching	Delivery/Launch Management	Media & Materials	Assistance on Demand (AOD)
User needs & prefs stored securely and available anywhere	Prefs and context used to determine best fit; here, now.	Built-in + AT are auto-adjusted and launched, anywhere	Auto- augmentation transformation and/or replacement	User can call up any assistance anywhere

Tools to make it easier, lower-cost to create & market new solutions

Developers' Space	Consumers & Experts Connection	Service Creation Tools	GPII Unified Listing & Marketplace	Micro-Finance Micro-Payment Infrastructure
Free & commercial parts to speed dev, and lower costs	Experts, consumers, testers etc to help new developers	To make it easy to Create AOD, Media, & Material service	Developers can quickly, efficiently market worldwide	Mechanism for Financing R&D and Service Del



So how is it going?



- **Over 75 members in the Raising the Floor Consortium**
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Cloud4all

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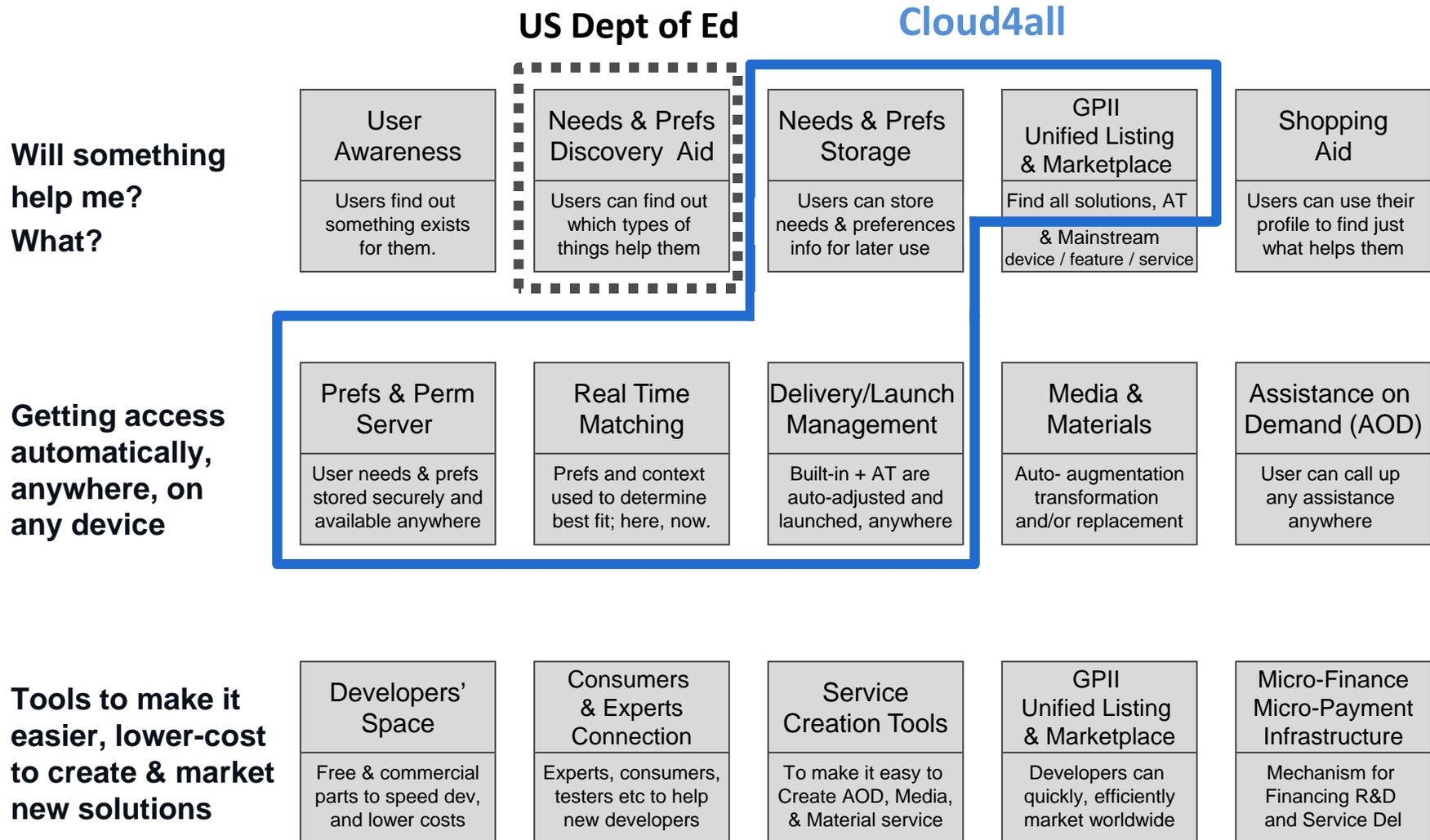
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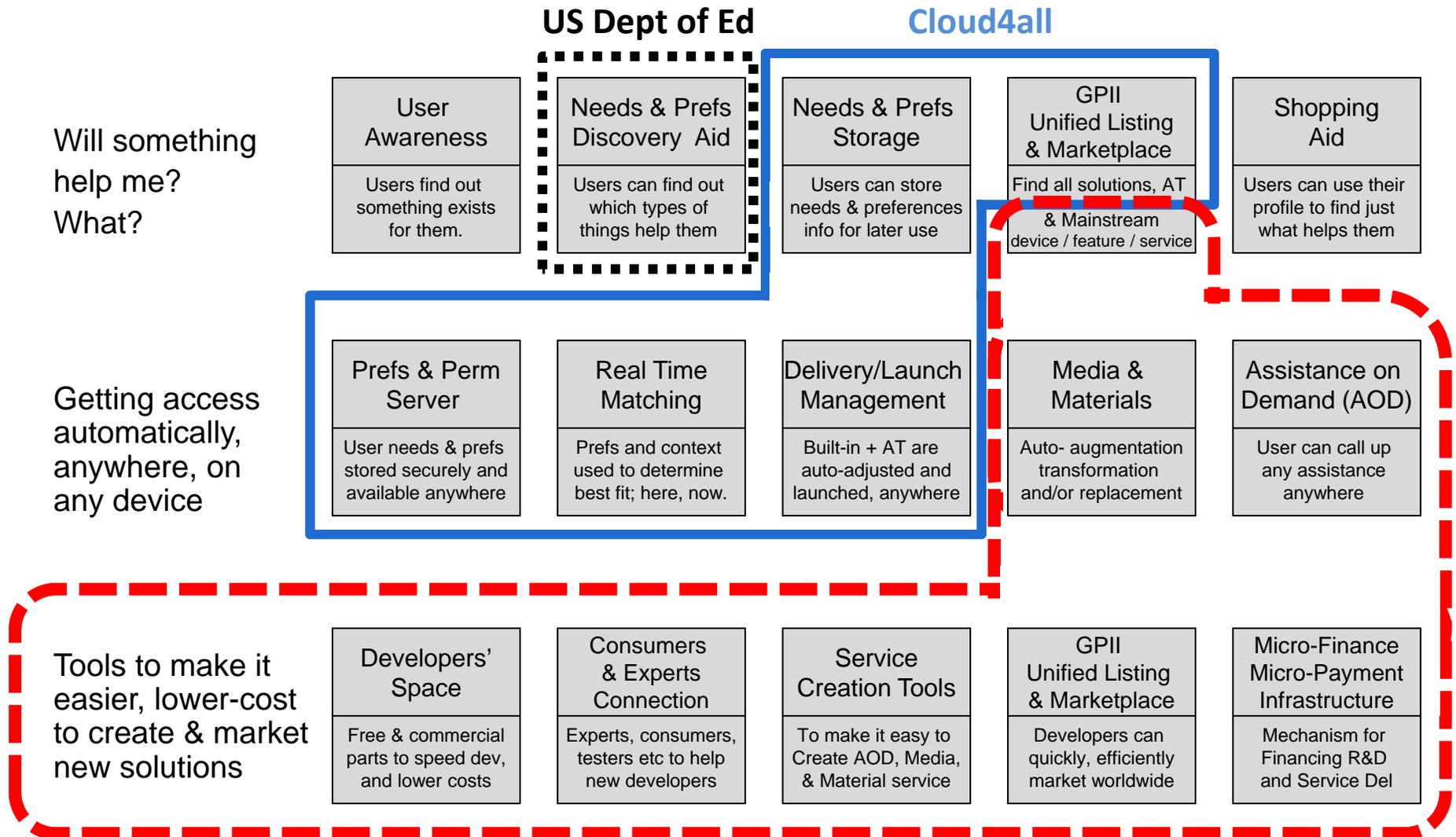
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Key to the last part is Collaborative Development

- **Build on rather than duplicate**
 - Ability to build on past work of others
 - Ability to use common core components and only have to add innovation part
- **Greater involvement – more players**
 - Contribute to accessibility while practicing in a scientific area
 - Modular design
 - Other parts from other specialties
 - Students get farther because start further down the track
 - Tools to allow “novice” programmers who are disability experts to invent (clinicians, teachers, users)
- **Clear and Easy Path to Transfer**
 - Easy tools for internationalization
 - Ready path and mechanism to market internationally



- **Potential of GPII**
 - Through international collaborative work
 - and an enabling Infrastructure
 - **we can create solutions that**
 - are simpler, instant, to use
 - work anywhere on any device, media, and materials
 - cost less per person/solution
 - result in more access built into Mainstream ICT
 - makes it possible for AT vendors to thrive
 - while serving the tails (and the tails of the tails)
 - introduce access as a service (device and human)
 - allow many more to develop; from scientists to users (and SUs)