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ICANN73 | Prep Week – Community Update on Universal Acceptance  
Wednesday, February 23, 2022 – 09:00 to 10:30 AST

SARMAD HUSSAIN: Hello and welcome to the Community Update on Universal Acceptance. My name is Sarmad Hussain and I'll be your remote participation manager for this session, along with Seda Akbulut.

Please note that this session is being recorded and follows the ICANN Expected Standards of Behavior. During this session, questions or comments submitted in chat will only be allowed if put in the proper form. As I have noted in the chat, we will read questions and comments aloud during the time set by the chair or moderator for this session.

Interpretation for this session will include Arabic, Chinese, English, French, Russian, and Spanish. Click on the interpretation icon in Zoom and select the language you will listen to during this session.

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With that, I will hand the floor over to Dr. Ajay Data, the Chair of the Universal Acceptance Steering Group, to take us through this session. Thank you.

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***Note: The following is the output resulting from transcribing an audio file into a word/text document. Although the transcription is largely accurate, in some cases may be incomplete or inaccurate due to inaudible passages and grammatical corrections. It is posted as an aid to the original audio file, but should not be treated as an authoritative record.***

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DR. AJAY DATA:

Thank you, Sarmad. Thank you, Seda, for setting this up. Thank you, ICANN, for giving us this opportunity to talk about universal acceptance and provide an update to the community.

We have colleagues here from all working groups and they are going to present their views, their updates, to the community at large. Next slide, please.

As we go further, and just to let you know, Sarmad is holding the slides, so he is going to take us all through the presentations. So, whenever you want to ... For the speakers who are going to join me here, request Sarmad to move you there.

So, this is how we are going to talk to you. I will do the introductions and then we will invite each working group chair, local initiative ambassadors, and they all will share an update of what they have done in this [system]. Next slide, please.

The idea is, as we have been talking about universal acceptance, for the new people who have just joined in, all domain names, all email addresses works in all software applications is the vision of universal acceptance.

This is driven through the volunteers, through the community, all of us together [inaudible] this vision impact us obviously if you are able to achieve our vision.

Impact is to promote consumer choice, improve competition, and provide broader access to the end user. Next slide, please.

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This is very important one and this is a slide which tells the whole scope of universal acceptance, readiness, and the affected area. So, if you see the top three examples of domain names, it tells you which kind of domain names we tried to address which we believe works very well in all software applications. And below there are five examples which are e-mail address examples which we believe do not work well in all software applications.

Software applications which are able to follow five pillars of UA that is accept, validate, process, store, and display [inaudible] applications. That is considered UA readiness. Next slide, please.

Websites which accept, which means you are able to put in your e-mail address and can validate it's okay, it's not invalid. It can process it for the desired purpose. It can store it well and [inaudible] UA readiness.

It was formed in 2015, UASG Group, and obviously the task has taken since then to create awareness among stakeholders, help developers to make UA ready systems, encourage everyone—businesses, government, stakeholders—who make UA-ready software. And obviously measurement. If you do something, you need to measure and re-measure the readiness. Next slide, please.

This is a very important activity, because if you measure and do activities, how do we do it? It's a worldwide challenge and there are very, very different aspects of UA.

So the UASG works with several working groups, with [inaudible] leaders and you are going to hear them today. Technology Working

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Group, EAI Working Group, Measurement Working Group, Communications Working Group, Local Initiative Working Group, UA Ambassadors. These are all working groups which are direct working groups which are there and they work for their own specific purpose. They also all network with each other and they work together in that area. So these are the working groups through which UA directly works and try to achieve the vision and mission. Next slide, please.

The Local Initiatives is a charter and it is aimed to address local problems. Obviously, UASG understood well that we cannot [inaudible] the policy and the local needs of each country sitting in one location.

For example, [inaudible] cannot [inaudible] and see the real picture of what's happening in UAE or in China or in Thailand. So [inaudible] local stakeholders, the leaders there, who will address the situation better, who will understand the local departments better and [inaudible] there. So, local initiatives is a very, very important aspect to take over initiatives somewhere. Next slide, please.

This is the Ambassador Program and this is a very important one. Who is ambassador? An ambassador is a person who is committed to raise an awareness about UA. He knows a little bit about technology. He understands [inaudible] and EAs and he takes a commitment that, "I am going to take UA awareness further." So you can see the list of current ambassadors. I must thank everyone who is listed in front of you that they have volunteered to take this position and serving UA awareness program in their own region. Next slide, please.

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And our program is always open and we always accept applications. So if you know somebody or if you are interested, please feel free to apply.

So now we are going to update. I'm going to take [inaudible] and going to invite Measurement Working Group chair. Please welcome, Sarmad, if we have chair here.

SARMAD HUSSAIN: Yes, Nabil is here.

DR. AJAY DATA: Nabil, welcome.

NABIL BENAMAR: Yes. Dr. Data, thank you. Hello, everyone. This is Nabil Benamar from Morocco. I'm the UA Measurements Working Group Chair and I would like to present what we have done so far in this Measurements Working Group.

So, our group plans and oversees and directs to get analysis efforts of the UASG for various frameworks and technologies and reports on UA readiness progress. We have so far published some reports, like the one on Browsers (UASG36) and UA Readiness on Social Media Platforms and UA Readiness of Content Management Systems.

So we have done so far great work for the moment because we have reports that give comprehensive details about these tools.

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We are now working on a new project that's called UA Readiness of Identity Platforms and Popular Webhosting Tools. Next slide, please.

So, for CMS (Content Management Systems), UA readiness of this CMS, namely for example, WordPress and its associated plugins and their notable extensions were tested with various categories of email addresses and domain names. We have so far noticed that, for domain names, in most cases, IDN generally worked well for end-to-end but failed some tests. For example, the A-label is stored instead of U-label in the database.

And for emails, while various categories of ASCII email address worked well in WordPress, it's not the case for EAI compatible. Next slide, please.

And here we have a table and you can see the details in our UASG Report 32. We have ... Previous slide, please. We have examples of CMS, like WordPress. We have three different categories based on the extension. Extension 1 is subscription management. Extension 2 is membership management. And we have the event management.

Also, we have three categories of tests. We have A-label which means that all passed, the test was successful. The B-level means that the end-to-end works but some tests failed. The C-level, nothing has been successful. So, testing was failed. Next slide, please.

And here is a summary and detail of what we have done. For example, for WordPress, we can see that for ASCII domain ... So we have A-level and for ascii.idn.idn, it's A-level too. And we have for Unicode and

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@idn.idn, so it's all about C-level, which means that, for example, for these two categories, the test failed. Next slide, please.

So, there are some caveats and conclusions about our tested browsers. So, we looked at the UA readiness of browsers on both desktop and mobile platform. This is something that we have been—we [inaudible] only in our working group to make sure that we are testing on both desktop applications and mobile platforms because the same application can work fine in the desktop-based application but fail to work fine in the mobile platform.

So, the general outlook of UA readiness of modern browsers is largely positive on desktop platforms. That's the main conclusion. One area of improvement for browser vendors is the handling of bookmarking for IDNs. A number of vendors listed previously stored bookmarks using Punycode conventions which have little or no significance to the reader. Next slide, please.

So, here is a summary of our study about browsers. The light green represent the most successful browsers in terms of UA readiness and we can conclude that [inaudible] and Chrome score highly across all platforms. Next slide, please.

Also, if we compare the readiness of browsers and desktops versus mobile devices, there were more UA difficulties with mobile device environment as you can see. So, most of the tests failed when it comes to Android, iOS, etc. Most failures were due to the following test. We confirmed that URL display is in the correct format as added and it's

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confirmed that the URL is displayed correctly in the bar. Next slide, please.

For the social media platforms, the UA readiness platforms were tested for registration and authentication, changing the user's e-mail address attached to the profile and posting content with various categories.

So the [inaudible] for the moment shows very poor support when using non-Latin and non-ASCII email addresses in the registration and authentication.

Posting content, we have strong support for display and navigation of international email addresses and domain across most social media platform for the moment. Next slide, please.

No social media platform supports registration using a non-ASCII email address. This is unfortunate and we can see it's in the charts as being red. So, for all platforms, it doesn't support the registration of non-ASCII email addresses. This is something that we need to work on. Next slide, please.

Tested the posting and messaging of non-ASCII URL and whether the URL behaved how the end user would expect. For example, whether they come up as a hyperlink and connected to the correct URL.

Telegram scored highest with LinkedIn, Facebook, and Twitter coming in second and third. So, for the moment, we have Telegram as the success story when it comes to UA readiness. Next slide, please.



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So, we have some ongoing work. Currently, we are tackling the web hosting tools. We developed a method to assess the web hosting tools which ISPs offer to their customers. We are talking about three main web hosting tools, the cPanel and the Plesk which is a commercial one, and ISPConfig which is an opensource which means a free software, the freedom of the user. So all these software are popular in many regions.

The second item in our work is the popular identity platforms. We developed a test method and evaluate the OAuth standard and design structure that the identity products integrate into.

Two identity platforms that use OAuth standards will be tested, one of which is commercial, between Okta and the Auth0, and the other is an open source (among OpenIAM, Apache Syncope, or Shibboleth Consortium).

Thank you very much. That's all from me. Thank you.

DR. AJAY DATA:

Thank you, Nabil. Now we will invite Technology Working Group, Satish Babu is here I can see. May I request every chairman and leader who speaks to take six to seven minutes, please, when you are speaking? We have lots of speakers. Thank you. Satish, over to you.

SATISH BABU:

Thanks very much, Ajay. Next slide, please. I had prepared for eight minutes but I'll cut it down to seven minutes now.

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This is a tech platform and we have some good news and some not-so-good news. The main vision of Technology Working Group is that we try to remediate and mitigate existing gaps in languages, tools, development platforms, and standards. We also develop technical content for trainings. Our main stakeholders are developers and technology members. You'll see more details later.

We are doing four things currently. We will run through them in the next slides. We are also doing two publications. The first is UA Readiness of 2,000 websites. This is the fourth round of website testing. You'll see details in the slides. And the third phase of the programming language valuation. Next slide, please.

So, these are the first two of the four things. First is that we are trying to figure out, after so many years of working for UA, what is the current situation? What are the impediments? What are the pain points? And to do this, we are having a two-pronged approach.

First, we intend to consult UA experts within the ICANN community. And then, based on these inputs, we are trying to reach out to more stakeholders, developers, managements, and governments primarily through consultations and service. So, we hope to be able to kind of strategize on the basis of inputs that we get from this process.

The second work that we are currently doing is readiness evaluation of standards and best practices. Now, there are many standards organizations which standardize technology, so if you are trying to see which of them can be worked with [the easiest].

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So, of all these, we identified a few. We have mentioned a few of them here. For example, the W3 Internationalization Working Group, the Python Enhancement [inaudible] from the Python Software Foundation, the WHATWG which is the HTML Application Technology Working Group, the Unicode Consortium, IETF, etc. So, after making this list of different agencies and organization, we are trying to work with them. Next slide, please.

So, when we look at the remediation of websites or testing of websites, we have done four rounds and we can see the numbers tested from 750, it has gone all the way to 2010. So, the number is increasing. But more important, the scope is [inaudible] different. Earlier two rounds, we are only testing. But the fourth round, we are testing and doing outreach back to the owners of the website telling them that, “Your site has got problems.” So this way, they are trying to see if we can get them to fix these problems, fix these gaps.

So, the first time, we are trying out the strategy and we will be continuing to do this until June 2022 under this project. We are also providing multiple channels of feedback and given that we still have a long way to go, we probably will have to look at additional interventions. Next slide, please.

So, this is the current situation. You can see the four rounds. For each of these different categories of websites, each category of the mail and domain names and so on. So, I’m not going to get into the details because of the time. Next slide, please.

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The summary of ... So, the programming language evaluation we have done three rounds. So, the first two rounds was done earlier, and in these two rounds, what we did was basically tried to look at the different libraries and programming platforms and languages and to see which of them are supported, which are not. Next.

So, you can see that there are several greens but some yellows and several reds as well. So, we have more work to do on this. Next.

So, we can see that several languages have been tested here but not all. In particular, the current round—next slide, please. So, in the current round, what we are trying to do is we have moved onto the mobile platforms, and as we saw earlier, the mobile platforms are not done very well vis-à-vis UA complaints. We also did PHP because we had not done PHP on [inaudible] earlier.

So, generally speaking, [EAI] has internal support for IDNA2008 but this approach is not available for apps that developers create, so that's a problem for us. But Android, and as mentioned earlier, Chrome also, is IDNA2003 compliant which is a major problem for us. Next slide, please.

So, as you can see, there is not a single green if you look at iOS and Android. So there is not a single library available or the program or developer who is developing ask. Internally, there are ways of getting this done but they are not exposed to the developers. So we have an issue here and we need to work with both these platforms to change the situation. Next, please.

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PHP situation is much better. In both [inaudible] we have several greens. Still some yellows and reds, but hopefully, this can be done or fixed over time. Next slide, please.

So, in this phase three, when we consider the mobile platforms, we also have started the process of submitting bug reports. [inaudible] is to just test but now we have, as mentioned earlier, we are trying to get feedback to the community or the group that does this [inaudible] library. So, we have also made some fixes and provided code examples and we have tried to provide working minimal code samples so that people can see how the gap can be addressed. Next, please.

This is my last slide. Here you can see that, in the third round of evaluation of program languages, where we looked at Android, iOS and PHP, we have started contributing to fixing the problem directly. Not just by working with the communities and groups but we also have provided fixes and we have submitted them to the [inaudible] available and [inaudible].

So, I think this is a reasonably good strategy for us because we are also directly contributing to filling these gaps. So, thank you very much for the opportunity to provide this update. Back to you, Ajay.

DR. AJAY DATA:

Satish, you have a question from community. I'll read the question for you. It's also in the chat. "The use of non-ASCII characters to tests UA readiness need more deeply test using different languages specific

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tests, since some test can pass with some languages and not with others. Do you plan to pass to some languages acceptance?”

SATISH BABU:

Yeah. So, let me just take a look at that chat. In general, we have tried to kind of create an extensive test cases [inaudible] that will take into account generally the variety of languages that we have. We have testing sites and the data available on our website. We have created several testing sites for each language and we are actually trying to kind of test it right there so that we don't have language-to-language variations. So, I think we are on the right track there. Maybe we have still some things to be done [at the end of it] but they are on the right track.

DR. AJAY DATA:

Thank you, Satish. Now we have EAI, Mark. Mark Svancarek.

MARK SVANCAREK:

Okay, great. Hi, everybody. I'm Mark Svancarek and I'm the Chair of the EAI Working Group. Next slide.

So, if you're here, you know what EAI is but I'll tell you anyway. It's the process of enabling email addresses, where either the domain part or the local mailbox part use Unicode characters. And that's related to RFC6530-RFC653.

Apropos of the previous question, we are not focusing on specific languages. We do have test cases that it'll change from time to time.

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We're really focusing on RFC compliance. So if you have a concern about the way that the tests are being run, our test cases are published and you can give us feedback on that. But we frequently are asked, "Are you testing Armenian?" or something like that and we're saying, well, look at the test cases but our focus is not on specific languages, per se.

So, our working group is focusing on what are the relevant technology gaps and remediating those and providing training materials. What we're working on right now is a self-certification guide, which I will tell you about in a moment and educational outreach to the developer community using technical Q&A sites.

And we have recently published some software test results. I'll talk about all these in future slides, so please go ahead, next slide. Thanks.

So, here's a thing that we do every quarter. We go out and we look at all the zones and we look at all the mail servers that are called out and we see how many of them will respond to an SMTPUTF8 request and here's our results. You can see that not much has changed since last quarter. We have a slightly higher percentage of mail servers that didn't respond at all. So the "did not support" number has changed a little bit. It does seem that the percentage of servers supporting EAI has increased a little but I think is all perhaps within the margin of error, so it's a negligible change.

Now, the thing to keep in mind is that this does not tell you about the volume of email support that there is out there. This is just servers that you can find in records. So, most of these servers might not be used at all. They might not see any traffic. Whereas bigger providers like Gmail

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or Outlook.com or Apple Mail, there could be a significant amount of traffic going through them but they would only show up as one or two servers. Next slide.

So, just a reminder. We do have a detailed technical guide where you can learn more about this. It goes through all the different parts of the architecture and talks about lots of other related things, like how does MIME interact with EAI, etc.? And it forms the basis of the test cases that I'll talk about as we go.

We're still using the legacy terms L1 and L2, or Level 1 and Level 2. Roughly this means that a service can send to and receive from. That's Level 1. And roughly it means that a service can host EAI mailbox names. That's Level 2. Many services that can interoperate with EAI don't do hosting of their own. So that's why we've made that distinction. When we get into the self-certification guide, that distinction turned out to be inadequate. Next slide.

So, if you look at UASG30A, you can see our report and it points back to our methodology. Here's the latest compliance or conformance results that we've posted. You can see that the big providers are doing pretty well. Not perfect. We're looking at a pretty large set. So, the numbers are—the stats are looking a little bit better than they have in the past. There's still a certain amount of work to be done, as you can see. There's still some fews and nones on the list.

Not all services are applicable to all components, depending on how they're made. So, what you see is what we were able to test. Next slide.



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We've now added testing of spam filters. Again, the details are in UASG30A. In the past, we weren't testing spam filters. We were just checking the email services themselves. This looks pretty good. We're only looking at the three services so far but the results are encouraging. Thank you.

A big effort that we've undertaken this year is the creation of a self-certification guide. So, if you are a provider, it's good to give really prescriptive guidance and say, "This is what it means to be EAI compliant. This is what it means to be UASG compliant," in pretty much excruciating detail and then giving this some scores. We have silver scores, gold scores, and platinum scores. I'll explain what that means in a moment.

The purpose of this is to allow people who provide services, applications, or even just developer libraries to evaluate what their level of EAI support is with the intention that they can tag themselves. "I support things at a silver level. I support things at gold level."

This is not a user guide. This is a vendor guide. So it's sort of like a logo program where you can say, "I support EAI at a particular level." It's intended to be used by people who are users or who are procuring services or their department or their company or their agency will create a quick guide at the end which is how to interpret the results of the certification guide. But this is not intended for the end users. This is intended for the providers. And we've been working on this very hard all year and we're getting pretty close to having a first draft. Next slide.

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So, remember what I said about L1 and L2? It turns out that when you're trying to evaluate these things and score individual features that simply saying Level 1 and Level 2 are not sufficient. We started to really struggle with concepts like the software supports hosting but it's buried in some advanced feature that you can't find in the manual. Is that really gold or what is that? So we decided that systems that are set up in the desired fashion, hosting is enabled automatically. It's a simple user interface to turn it on or off would be more of a platinum feature, more of an aspirational feature, whereas you can find it in there—it does work—but it's an advanced functionality that you have to be an IT manager to enable. That would be more of a gold thing.

So, within the guide, you'll see a lot of silvers and golds with the occasional platinum. It becomes more complicated when we start talking about hosting, for the most part. Next slide.

So, here's an example of the requirements. This is within the MUA section. We've broken it down by MUA, MTA, etc. And you can see some examples. So, EAI addresses being saved to the address book. Theoretically, you could have an address book that doesn't allow you to save EAI values. It only allows you to save the old values. And you could still have a functional EAI system sending to and receiving from, even though the address book is sort of half-baked. So that's a gold example, rather than a silver example.

So, making that distinction, there's been a lot of debates about how to assign the values.

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I will point out that there is a copy and paste error on this slide. There's an error in the source material. As an experiment to the ... As a challenge to the reader, see if you can find it. We will update it on the final materials when we publish them. Next slide.

Another task that we think is very important is going to the education websites like StackOverflow or ServerFault. GitHub, too. Because that's where a lot of developers go to get advice. If you're blocked on just some simple thing, you would go to StackOverflow and ask the community: how do you do it?

And what we noticed is a lot of these answers are very old, not up to date. Sometimes, they're not even right. An example would be how do I validate an email address with a regex? And the correct answer is don't validate an email address with a regex. It's complicated and you'll get it wrong. And on StackOverflow, of course somewhere in there, there is some person giving that correct answer but mostly it's, "Here's how you do it. Here are some examples." Those examples are mostly never supporting EAI. It's just old legacy email. But actually most of the answers are wrong, even for the old email.

So, we've been going to these sites and we've been uploading the correct answers, and in some cases providing our own answers to clarify how you should do various UASG-related things, UA-related things, and then pointing to our materials.

So, I think this is going to be a very important effort to really get the word out to developers that they may be missing something when

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they're doing their development and that they should look for more updated advice as they do it.

So, as you can see, there's technical questions about how you validate things, whether character sets, length limitations and various configurations. We're addressing all of those now. This is underway. Next slide. Oh, I guess that was my last slide. Thank you very much, everyone.

DR. AJAY DATA:

Thank you, Mark. What a wonderful [inaudible] for the community. Thank you for your time and effort here. And Communications Working Group. I can see Maria here to give us an update. And before you give us an update, I want to thank you, Maria, for your amazing effort during the year. I know you have been pulled off to do some more important stuff, so you will leave this position, but I'm sure you will continue supporting UA wherever you are, whatever you will do, and we will not leave you behind. We will keep pulling you and keep using your services to further UA and your vision. We would request you to please provide an update. Also, I don't know, we have [Daniel] and Raymond. I would like to congratulate them for Chair and Vice Chair for the new positions of your Communications Working Group. So, over to you, Maria, for a quick update. Thank you.

MARIA KOLESNIKOVA:

Thank you, Ajay. Thank you very much for your kind words. Yes, I will try to keep my activities with you. So, this is my [inaudible], and of course

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we will keep to make lots of activities at local levels. And my congratulations to [Daniel] and Raymond, of course. So, guys, please keep in touch and do your best. We will [inaudible].

Okay. So, as we have not too much time for the update, and a marketing person, I can talk lots about universal acceptance and our activities, but I will try to be short.

First of all, Communications Working Group is aimed to develop and realize and execute the communications strategy for the USG. We of course do it collaboration with other working groups and you can mention that there are lots of technical details connected to these UA issues right now and they are represented by my colleagues, and what I see and what have been mentioned by me from my term as chair. So we have a little gap between the marketing and coms persons and between the technical persons, so who are involved in UA issues. So probably UASG also needs to think on some trainings for marketing persons for non-technical persons because sometimes it's really difficult to promote that [inaudible] technical [inaudible]. So we need to find a way how to make it easier.

What else Communications Working Group do? We were engaged during the last period and we will continue to do it in IGF activities and we are trying to keep [inaudible]. One of the main [inaudible] relative for IGFs, global and regional and national IGFs. I would say that it's really a huge topic for the IG summer schools in different regions because it's really interested and it's really connected with other

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Internet governance related issues. So, guys, put your attention on universal acceptance for the summer school agendas.

During the last period, we made UASG more involved in different regional and global events to raise your awareness, of course, worldwide. Also, we worked on the development of UASG communication channels, such as websites, such as social media channels, because UASG is aimed to make wider awareness spreading. So we need to have our own instruments and channels to do it ourselves. So, we tried to improve these tools.

We also have very interesting ongoing work, such as making different formats of content relevant to UA issues. So we are working on explaining videos. We are also thinking on how to make better communication with technology companies that can influence markets, like global markets and local markets, so we have started to make some lists of [inaudible] companies that probably need to be outreached—well, not probably but surely need to be outreached by UASG leadership and probably with ICANN Org help. Also, of course, we will continue to improve the website and social media channels. Next slide, please.

Here you can see some examples of what we have done. This is about the explainer videos. They will be short and [inaudible] that they would be made in a short and educational way and we hope that they will be really understandable for wider audiences, not only for technicians but for people who just want to jump in these topics and understand what

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all this is about. So, we will try to do our best in this. Also, they will be translated in different languages. Next slide, please.

So, here are some examples of regional trainings that were provided by ICANN in collaboration with UASG and with ALAC regional communities, such as NARALO, AFRALO, and [inaudible] training series with LACRALO and Asia-Pacific region as well. Next slide, please.

Some of these events were provided during the 2021 year. Some of them are still ongoing and were made at the beginning of this year. And as I understand, there are lots of great feedback from these events. And what is interesting, were tried and our colleagues from ICANN who represent us, they tried to make it in an interactive way to keep attention and not to be bored with technical details. So, there were quizzes, Q&A sessions, and even the participants get some certificates. So, I think that these are really nice activities. Next slide, please.

Here are some results of how UASG works on global IGF platforms. Here is a link to the sessions that were organized by UASG to discuss universal acceptance as a driver for wider access for collaboration and some takeaways of the session. You can find more information and the report on the IGF website. Next slide, please.

CHRISTINA RODRIGUEZ: Excuse me. I'm so sorry. This is Christina. Sorry for interrupting. If you could please slow down. It's being very, very difficult to follow, interpreters especially. If there are more speakers after you, that would be great also that is taken into consideration. Thank you.

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MARIA KOLESNIKOVA:

My apologies. Okay. Here are some examples of some other regional outreach events that were provided by UASG. We supported these events by speakers, by content, and by participation. So, if you are interested to invite us, you are welcome. We are open for the collaboration.

For example, tomorrow will be universal acceptance sessions at APTLD81. So this is ongoing work during the whole period while UASG is working. Next slide, please.

Here is the example of UASG newsletter. This is the initiative of last year. We spread it for the UASG community mostly but I hope that further it can be spread for a wider audience for those who are really interested in UASG use and UA use around the world and not a member of UASG still. Next slide.

Here is the slide about the redesign of the UASG website. The most changes were connected with the development of the document hub because there are lots of documents provided by UASG and we wanted to organize it in a more easier way and easier for search and easier for understanding of what are in these documents. So we hope it helps. Next slide, please.

Here is some information about the paid social media campaign. It was the first paid social media campaign that was provided by UASG for its social media channels. Next slide, please.



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It was focused on Python developers and here are some results. It was concluded a quite successful one but I believe it should be continued further to use this channel as one to spread awareness. Next slide, please.

And as a communications person, I once again want to invite every one of you to join UASG on social media because there are lots of updates and announcements and you will be very well keep updated on our activities, and if you are leading any social media groups and channels that are quite popular, we are open for collaboration. Any collaboration activities.

Thank you, Ajay. That's all from me.

DR. AJAY DATA:

Thank you, Maria. Thank you for a wonderful update. And thank you for your regular contribution towards UA. Now we will shift gears to Local Initiatives and Local Initiatives, we have a representative from China. So, China Local Initiative Chair is going to share about China here. Rui?

RUI ZHONG:

Hi. This is Rui Zhong from [inaudible] China. Can you hear me?

DR. AJAY DATA:

Yes, we can. Go ahead.

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RUI ZHONG:

Hi, everyone. Thank you very much for giving me the opportunity to share the work of China Local Initiative. The China Local Initiative was led by [inaudible] of China and we gathered all different stakeholders and experts all together to move forward to push forward the UA readiness in China.

[inaudible] last year and [inaudible] we have made many progress. Here I would like to make some sharing. Regarding the outreach and the industry promotion, we co-organized a series of activities with different partners and [inaudible]. For example, the biggest event was the Fourth Chinese Domain Name Innovation and Application Forum. More than 200 participants and representatives from different stakeholders come together to attend the forum. It is one of the annual top events in the Chinese domain name community. The topic of how to promote UA readiness in China was reiterated and discussed in this forum. It was also recognized as an excellent PR event to raise the awareness for the public in the local community to know more about the UA.

And as for the training, we invited the UA ambassadors to introduce UA-related knowledge and to show a showcase of Chinese IDN promotion to the public and to the university students. You can see the slide. It was also invited an ambassador to introduce some cases to the global community in the IGF last year.

Another important work of last year is to release the test report on browsers supporting Chinese IDNs, in which we took a random test of a browser on supporting the Chinese IDNs, involved brands from home and abroad, such as Google Chrome, the Microsoft IE, Edge, and the

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Chinese browser, for example QQ browser FILEforce and the Apple Safari.

Browsers tested includes a PC browser and mobile browsers. The report showed that browsers to support Chinese domain names has gradually increased in recent year but you can see the slide. There are some UA-readiness function still need to be further improved. For example, especially for the Chinese brand browser. [inaudible] and some function. But we are very happy to see that it's a very good beginning. At least all of the browsers realize that it's important to support the Chinese IDN.

So, just a few weeks ago, also found that Google Chrome has released the IDN rule for Chrome, so we think it's a very good example to follow and study. So we have [made] translation for that and shared this information to the community. We also encourage the Chinese browser, service provider, to follow the Google Chrome IDN rule. Next slide, please.

Good news for our government outreach effort is that the promoting Chinese domain name application and creating a better development environment for Chinese IDNs were written into the [inaudible] development plan on information and the communication industry. These guidelines were issued by the Ministry of Industry and Information Technology. This guidance provides a clear signal that a Chinese IDN is very supported by the policy. It is supposed to be a huge driving force to move this process forward and this news was widely

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reported by mass media, so it's very encouraging for the whole community.

So, in terms of other work—for example, we will continue to follow up and facilitate progress, for example the EAI, the top two personal email brands in China—the QQ email and NetEase mail had already put EAI into the working plan and are moving forward step-by-step. This information I have introduced in previous meeting sessions.

As for other Internet application—for example, this search engine and browser and other applications, they make gradual process and they were also realizing importance and significance of UA ready. And for the following—

DR. AJAY DATA:

Rui, you have to speed up. We have other people here.

RUI ZHONG:

Okay. I will speed. Following up, we will move forward and continue to take further steps. For example, we are preparing the 2022 China IGF and we will consider to put a UA topic into the agenda. That's all from [inaudible]. Thank you very much for your listening.

DR. AJAY DATA:

Thank you, Rui. Now we have CIS-EE Local Initiative. Do we have the Chair here?

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MARIA KOLESNIKOVA: Yes, that's me, Ajay.

DR. AJAY DATA: Marie, of course. Yes. You are doing it. Perfect. Please go ahead.

MARIA KOLESNIKOVA: Hello once again. This is Maria Kolesnikova. I am also leading the Commonwealth of Independent States and Eastern European Local Initiative. This initiative put together members from seven countries, so there are experts from mostly ccTLD registries but also from technical audience, some marketing persons, and so on. Next slide, please.

During the past year, we actually do lots of regional events and here I want to mention just some categories of events that we are providing in different countries. These events are organized by our members in their respective countries.

So, we work on UA technical workshops. We do some regional workshops for developers and for technicians. One of them was made in Russia in March of the last year for Python developers. Our members also make and organize UA hackathons. One of them was organized from our colleagues from Serbia. It was quite interesting case. They connected their work on WHOIS issues and IDNs.

And all of these were making like a mobile phone application, so quite an interesting decision. You know that hackathons help to show that UA issues are quite easily decided from the technical side, actually, by developers. This is one of these kinds of events. Next slide.

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We of course have members from ccTLD registries. They are also interested in promotion the IDN activities and their IDNs. But of course we discussed all these issues in connection with [inaudible] universal acceptance implementation questions because they are connected. And universal acceptance is presented on national IGF platforms and at summer schools by our members. You see the examples. Next slide.

So, our local initiative was also focused on the development on some guidelines and recommendations, I mean the documents for different stakeholder groups. So we develop the guidelines on how to implement non-ASCII domain names and email addresses for developers in software, so these documents are quite short, but it's based on the standards and best practices. So this is just to help such non-technical persons to make [dialogue] with the technicians because this document can explain what exactly we want from developers to be implemented in their products.

So, we also make the proposals for the contractual and tender documents that can be useful for governments, representatives, and other entities who make such documents.

We provided some surveys, like IDN survey among ccTLD registries worldwide in collaboration with EURid and UNESCO and Oxford Club. We also work on some evaluation of universal acceptance. For example, in Russia, among the social significant resources. These resources mean free Internet access to them confirmed by the government support.

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And during the next period, we want to provide to make regional events. We consider how to include [thematic] in curriculum courses for the customers in different universities and we also try to analyze the user experience they face when they use IDNs in EAI addresses. This is quite interesting issues because what users think and what users try to fix and try to ... What challenges do they have and how we can help to fix them during this period while we are working closely with developers and want them to achieve universal acceptance, what users can do now.

That's it from us. These are all our activities. Thank you.

DR. AJAY DATA:

Thank you, Maria, for your role in the system. Now we have India Initiatives. We have a Chair, Sarika. Over to you, please.

SARIKA GULYANI:

Thank you, Dr. Data. Very good morning. Good afternoon and good evening to the people joining in here. I'm Sarika Gulyani. I'm a director and head of ICT with the Federation of Indian Chambers of Commerce and Industry which is [inaudible] within the country working across different domains of the economy including ICT. And as part of our Indian Language Internet Alliance, which is the ILIA, we are running India UA Local Initiative Chapter for one and a half years and there have been some good success stories.

And I must say that with the support of Maria's work from the Communications Group, we have been able to work on the case studies,

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so there are lots of many things which are happening within the geography [inaudible]. Next slide, please.

So, as part of the snapshot of the initiatives which we could give you a glance through—there are many more but I could only cover a few in the interest of the time.

So we are doing various working group meetings as part of the discussion. So this is kind of a community engagement programs where we meet with the community members, have a discussion on the initiatives, get their support and then plan the activities with the different regions.

As most of you may be aware, India is a very complex market with 22 official languages and more than 16,000+ dialects, so that increases the complexity of a region which you can compare it like kind of a continent with multiple countries having its own language. So, we work with that kind of diversity. And keeping that in mind, we plan our activities.

CHRISTINA RODRIGUEZ: Sarika, sorry to interrupt. Our interpreters request you to speak a little bit slower for better interpretation. Thank you.

SARIKA GULYANI: Thank you. My apologies. I'll try my best to be slow. So, as part of our activities, we have been working on the UA and EAI technical workshops. These workshops were organized on various subjects, including UA overview, implementation around how EAI can be done,



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how UA readiness can help organizations. Here I would acknowledge the support received from our UASG ambassadors which [inaudible] as well as our community members who have been supportive.

Apart from this, we have done various UA overview sessions. These range from a smaller interaction groups to bigger webinars. Since the pandemic was on, most of the activities were on the virtual mode and we had various learnings during this discussion. The subjects revolved around various areas including implementation of IDN, its role in the development and expansion of Indic Internet as well as how it can further to the Internet economy.

We also, while we organized these sessions, there were multiple things which were done with stakeholder groups including government. So there was one live session attended by 400 participants. We did it with the government on [inaudible] which is the flagship language symposium of our country organized by the Ministry of Electronics and IT along with [inaudible]. Next slide, please.

Here I would like to bring the attention to one of the biggest achievements we could do within [inaudible]. India will organize its first India IGF which is now being recognized by the Global IGF as—

SEDA AKBULUT:

Sarika, sorry about that. Can you speak a little bit slower for our interpreters? That's their request. Thank you for your patience.

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SARIKA GULYANI:

Thank you, Seda. I'll try. I'm trying my best. Okay. So, we did India IGF which was globally recognized by the Global IGF currently, and as part of India IGF, we had more than [inaudible] registrations and there were specifically the UA chapter collaborated with India IGF to do a specific session on UA. So we had three pre-IGF India IGF sessions along with a specific discussion during the India IGF on multi-lingual Internet as well as the importance of UA as a key pillar for the truly inclusive Internet. These sessions aim to promote UA among key stakeholders, industry, academia, and government.

Another important thing which happened last year were local India UA chapter has become an official member of UA Committee at NIXI. So it is National Internet Exchange of India. We have been working very closely with them. UA is an integral part of now MeitY's agenda development of multi-lingual Internet and also local India chapter has partnered with various other community members to develop various activities.

We did also have the inclusion of one of the main UASG ambassadors. I'm sure Dr. Data will share further details. Mr. [Rajesh] who joined us in the group and as part of—he is the founder of one of the biggest [inaudible] e-commerce financial services company [inaudible] for the country. He has become a UASG ambassador for our country and as part of our initiatives for the next year we would be soon working with him on the deliverables.

Continuing the momentum for 2022, we will be working further government engagement, capacity building, technical workshops,

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social media promotion, and of course a high focus on case study development. The process has already started. Next slide, please.

This is just the snapshot of the activities. I will not go into details but these are like I mentioned about India IGF, [inaudible], all those were done and there are multiple of those but we could only capture a few in the interest of time. Next slide, please. Thank you.

DR. AJAY DATA:

Thank you, Sarika. This allows me to say one very nice thing which has been achieved in India. That is NIXI, which is a registry of .IN in India has CEO, Anil Jain, who was recently been appointed as a working group chair for Coms. Also, he was a chair for India IGF which is also now part of Global IGF Forum. So, India is doing lots of stuff around that and UA is an integral part of it. Thank you for everybody.

I would just request every speaker to go slow for the transcription and translation team. I would like to invite Thailand UA Initiative Chair, Anawin, to share details about Thailand. Thank you.

ANAWIN PONGSABORIPAT:

Hello, everyone. My name is Anawin from Thailand Network Information Center. Next slide, please.

For Thailand local initiative, in 2021, our key focus activity were contacting online workshops and webinars to increase awareness and give knowledge to our local developers, students, and private sector.

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So, the first workshop is setting up an email server with EAI support on CentOS8 which we had 34 participants actively attending and practicing in the workshop, including two people from Lao National Internet Center.

Second, we have a UA GitHub Pull Request Hackathon to make opensource projects to be UA ready. As a result of the competition, we have a total of 38 pull requests. One request was accepted for merging to the base repository.

And lastly, in 2021, we had a webinar WebPresso: Create Business Digital Identity with 60 interested participants consisting of developers, students, and interested people. We explained the benefits of creating a website and using Thai domain names and email as another method for their business to help build trust and digital identity. Next slide, please.

For the ongoing projects, also this year in January we continued to set up a workshop to educate interested people on how to set up an email server with EAI support, but this time we changed from CentOS8 to Ubuntu with 76 participants, and in the upcoming months we will have an online workshop with [inaudible] UA readiness with PHPMailer. Also we plan to develop curriculum, self-paced online training course and labs. And lastly, we also have the same Hackathon I think maybe in September 2022. That's all for Thailand Local Initiative. Thank you.

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DR. AJAY DATA: Thank you very much, Anawin. Wonderful presentation. Now ambassadors where? Next slide, please. Now we are going to have Marvin Woo from China to share about an update here. Marvin, over to you.

MARVIN WOO: Okay. This is Marvin. It's okay?

DR. AJAY DATA: Yeah. Please, go ahead, Marvin.

MARVIN WOO: This is Marvin from China. My key work for UA Ambassador of China is [inaudible] EAI. So, in the last year, [inaudible] the email system—the new email system—Coremail XT 5.0 to support Unicode and we update only platform for EAI email [content]. So, they can [maintain] EAI [inaudible] EAI. Next slide, please.

In the FinTech forum, introduced EAI. So number one, Bank of China, ICBC, were approved to [use it]. [inaudible] presentation on EAI for the [whole] bank, almost 400,000 users. ICBC is the world's largest bank.

Lastly, [inaudible] for college students in Guangdong, Hong Kong, Macao, and Taiwan, and recommended EAI. And for ambassador, I use EAI for my [inaudible] work in my email account you can see it's an EAI account. That's all. Thank you.

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DR. AJAY DATA:

Thank you, Marvin. And I think we are going to have a lot more progress in the future. You are doing wonderful work there. Next slide, please. Now we have Zhijiang Liu. I think we have Lisa who is presenting today. Please go slow for our translators and the floor is yours. Thank you.

LISA LIANG:

Hello, everyone. This is Lisa Liang. At present, this is a report on behalf China Ambassador [inaudible] and I appreciate to have this opportunity to join this meeting. As one of the three ambassadors in China, [inaudible] activity promotes the work of raising awareness of universal acceptance in 2021.

First, Mr. Liu took the lead in planning and presiding over The Fourth Forum for Creative Application for Chinese domain names, as he is the ICANN UA Ambassador and General Manager [KNET] which is the co-organizer of the [forum].

Nearly 200 industry experts gathered together to talk about Chinese domain names or IDNs and universal acceptance. Here we would like to thank Mr. [inaudible] and Sarmad for taking the time to record videos [inaudible] value and the significance of international domain names and introducing the UASG's [inaudible].

Next is assist the Internet Society of China to conduct a test report for Chinese domain names, universal acceptance in browser. The report shows that in China the browser support for Chinese domain names has gradually increased in recent years.

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The third is actively participate in offline activities and promote the Chinese domain names demonstration project. Mr. Liu pushed the influential website to launch Chinese domain names and participate in offline conferences.

The fourth is online publicity and the popularization of Chinese domain names through new media such as short videos.

The last is actively participate in the work of Chinese domain names initiatives of the Internet Society of China. Mr. Liu participated in making the 2021 plan of the working group to fully promote universal acceptance in the basic Internet applications, etc. [inaudible] extensive support of ICANN Org, Chinese community, and Chinese government. [inaudible] China will continue to make new achievements in 2022. That's all. Thank you for listening.

DR. AJAY DATA:

Thank you, Lisa, for wonderful work. Before we move to Aman from India, may I ask the speakers to look at chat. There are some questions for you. We will read them out louder once everybody has spoken. Thank you. Aman, over to you, please.

ARMAN MASJIDE:

Thank you very much, Dr. Data. As a UA ambassador, I've had the privilege to work very closely with the Indian Local Initiative headed by FICCI-ILIA and working closely with Sarika and Dr. Data himself.

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With that in mind, there were various local initiatives taken by FICCI where we participated and evangelized the idea of universal acceptance through various folks from the academia, from the industry experts, to bring [inaudible]. So it was a great opportunity to do that.

Some of the forums that we participated in were [inaudible] 2021. I also had the opportunity to work for the WSIS Forum in 2021 as a UA ambassador and have a discussion over there, a panel a discussion. Apart from that, a couple of more panel discussions that did come up.

What I've also done, working with [inaudible] registry operator, a new gTLD registry operator, is that we looked at the issue of universal acceptance from the end user's perspective and actually put ourselves in the shoes of the customers and tried to test what their experience is going to be. So we tested more than 700 top websites based on [inaudible] rankings, plus also top ten social media platforms and we've shared our findings and reports with UASG. I think the [inaudible] has also gone through it and will be publishing a blog article soon along with those reports.

Furthermore, we invested a lot of time in strategizing to build and connect with these website—

SEDA AKBULUT: Excuse me.

AMAN MASJIDE: Yes?



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SEDA AKBULUT: Sorry to interrupt. Our interpreters are asking us to mute the devices if there are some other participants that haven't muted the microphone. We see some background noises. Thank you for your understanding.

AMAN MASJIDE: So, to continue, we also tried to come up with a strategy to connect with website operators and platform owners through various mediums. We also tried to [inaudible] various product management forums. Also reaching out via LinkedIn email features to connect and those results and those observations are also shared with UASG.

We also managed to get a guest article on Universal Acceptance: Making the Internet Work for Everyone, which got published on Doman Insight and was also replicated Circle ID. To our knowledge, it was one of the most-read articles. And this is just a testament to the fact that the world is really opening up to universal acceptance and how the new face of Internet is going to look like. Back to you guys. Thank you.

DR. AJAY DATA: Thank you very much, Aman. Now we will have Harish Chowdhary. Harish, over to you, please. Speak slow, please, and everybody mute themselves please while they're not speaking. Thank you.

HARISH CHOWDHARY: Thank you. This is Harish Chowdhary from India. So, as a universal acceptance ambassador I have conducted some of the activities. Most

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often was I have shared views on the universal acceptance and its advantages during the monthly call of APRALO. That is Asian, Australasian and Pacific Island Regional At-Large Organization in ICANN in the month of January.

In addition to that, we have conducted a multi-lingual Internet workshop and I have actively contributed to the workshop. This workshop is organized and conducted by the Ministry of Electronics and IT government of India on 4<sup>th</sup> of December in the presence of [inaudible] Minister Shri Rijav Chandrasekhar.

So, all the various stakeholders were present, academia, governmental representatives of MeitY, National Informative Center, Center for Development of Advanced Computing, National Internet Exchange of India [inaudible]. All the [inaudible] industry representatives were present including Microsoft, Google, Mozilla, Xgen, Rediff, and Zoho. They are the organizations working on the particular solution which are delivering to the UA readiness. And industry associations including FICCI and IAMI. And there was also [inaudible] representatives were also there.

So, [inaudible] presented what is universal acceptance, why it is important, and relative issues relevant to Indian domain names. And all the representatives that [inaudible] to the issues.

[inaudible] of cybersecurity related to the IDNs was also discussed with the representatives and it is also noted down.

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So, as a UA ambassador, I have played an instrumental role in enabling MeitY [inaudible] which is the [inaudible] version of MeitY.gov.in. So, in the same way, [inaudible] IDN [inaudible] organizations and they are leading from the front of development in universal acceptance, so [inaudible] could be achieved fully and all the end users put [inaudible] to the Internet in the choice of their languages.

So now, currently, [inaudible] to mentor the team working on the DNS related projects including universal acceptance. This is the joint initiative of NASSCOM, one of the industry organizations in India on the Center of Excellence on Internet of Things, artificial intelligence and this is the initiative of NASSCOM and ICANN.

In addition to that, I want to convey that the India IGF website was created in 14 languages including English, so we also have 13 IDNs including French and Spanish language. So this is kind of an achievement for India IGF as well to showcase the whole world that how good IDN utilized for events like Indian IGF. You can also visit the website to experience the IDNs.

I would thank Internet Governance Division of Ministry of Electronics and IT and Internet governance structured implementation module working day and night to support these activities related to the multi-lingual Internet as well as universal acceptance.

I am also a [inaudible] and currently I am working on a particular project that the research is related to the [inaudible] of the websites on IDNs and [inaudible] security. So that is what I am doing in my capacity.

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Finally, I am planning to host a webinar series of awareness programs with the help of the UA local initiative as well as UASG leadership. Thank you. That's all from my side.

DR. AJAY DATA:

Thank you, Harish. We will have now Abdulkarim from Nigeria. Abdulkarim, over to you.

ABDULKARIM OLOYEDE:

Thank you very much, Ajay. I will try my best to go slowly and at the same time I will try to be fast because I know time is [inaudible].

So, in terms of what we've been able to do in Nigeria, what we've done is to concentrate on building capacity, especially together with the industry, the academia, and also with government. We organized a number of public lectures and the first public lecture was organized with the Nigerian Society of Engineers where I was able to deliver a lecture on the topic: Connect to the Unconnected: The Role of Universal Acceptance.

Also, I was able to also give another seminar to post-graduate students whereby which I aimed to build capacity especially within academia and also with the Nigerian Communication Commission. Myself and [Yaovi] were able to organize this event which [inaudible] the African team and we also presented a lecture.

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Also, in May, we had a seminar on universal acceptance with students at University of Abuja. And also I was able to give a presentation at the Ghana School of Internet Governance on what IDN is.

Also, [inaudible] West Africa School of Internet Governance and we've also had some presentations December last year [inaudible] Nigerian Society of Engineers which is part of building capacity with the industry, building capacity with academia, and also building capacity with governments. Thank you very much. That's my presentation.

DR. AJAY DATA:

Thank you, Abdulkarim. Now we have Cengiz from Turkey.

CENGIZ ACARTURK:

Thank you, Dr. Data. Also thanks, [Sahesh], Seda, and Sarmad for supporting us in this process, our progress.

We established a team in 2020 as to design a local initiative in Turkey. The team members included researchers and IT people from government institutions, also from companies.

We have been having regular meeting since they're mostly online due to the pandemic. We first conducted a few studies—tests—to understand what is the technicality behind because we are all IT people and we conducted, we started with email address internalization tasks [inaudible] university and the governmental institutions, specifically, it was one of them was using PostFix. The other was using Microsoft Exchange and it worked. Mostly it worked.

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We also identified future work, like how to design a spam filter, how to localize antivirus filters because these are also related to spam and scam emails are also related to local languages nowadays. We ended up with a deliverable, which is a technical report, recently in Turkish. Next slide, please.

Then we also prepared—we have been preparing for applying for a local initiative, local chapter in Turkey. We have been checking what other local regulations, what are the local laws that make it possible to establish a chapter and the results are [social aspect, societal aspect] in the sense that how people would perceive UA which is the first address [inaudible] or IDN or software [localization]. So we have been discussing this within the community.

Also, we contacted Internet Society, Turkish Chapter. They have been willing to collaborate with us for disseminating UA in Turkey.

And what we are going to do, we are planning to understand, as I said, perception of UA by the Turkish society in a way that [inaudible] systematically by using some models which are called Technology Acceptance Models. So this means crowdsourcing data from IT specialists and other parts of the society. So this is the plan.

And we also plan to expand the core team by new members from different stakeholders. And we are also planning finally webinars for purpose of increasing UA awareness in Turkey and we planned them in collaboration with the Internet Society local chapter. Thank you very much.

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DR. AJAY DATA: So this is the time for questions and answers. Seda, would you like to read out some questions which are not yet answered here?

SEDA AKBULUT: Sure. Thank you, everyone for the questions. We have tried to answer all the questions in the chat but I can read aloud one of the questions from Chris Disspain. What are the two or three most important things large registries such as Donuts can do to help with universal acceptance? I have responded to this, but if you want to add more on this, feel free.

DR. AJAY DATA: Seda, is this question addressed to someone specific?

SEDA AKBULUT: Chris, did you address this question to someone specific, Chris Disspain? No, it wasn't. It seems like the answer is already sufficient.

There is also another question from Vadim Mikhaylovto to Anawin. Do you have video records or materials related with CentOS and Ubuntu workshops? If it so, can you share this materials?

ANAWIN PONGSABORIPAT: I shared to Vadim already.

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SEDA AKBULUT: Okay, thank you.

SARMAD HUSSAIN: Thank you, Seda. I think we are out of time now, so request Dr. Data to maybe conclude. And if there are any questions which are still unanswered in the chat you can please reach out to [info@uasg.tech](mailto:info@uasg.tech) with the question and we will make sure that we will respond to that question with further details. Thank you. Back to you, Dr. Data.

DR. AJAY DATA: Thank you very much, Sarmad. Thank you, everyone, for participating, joining, speaking, and addressing the UA issues globally. This is a most important subject to bring [inaudible] online, and of course a business opportunity for people who are looking to provide UA solutions.

Thank you, everyone, for joining in this call. We will see you soon in the next session in ICANN73. Thank you for joining this call. Thank you. Thank you, everyone.

SARMAD HUSSAIN: Thank you, Dr. Data. Thank you, all the panelists, all the participants for a very active session and [inaudible] session as well. We will close this session. We can stop the recording. Thank you.

**[END OF TRANSCRIPTION]**