Rochelle - 00:05

Hey everybody. Welcome to our October community call. I am so happy that you've joined us today. I'm Rochelle T. I missed the last one, sorry about that. But I'm super excited to be back and hosting October. So today I have Sjoerd, Bourjois and Kees joining the call with me. Really happy that you all are joining Kees. Welcome to your first community call. I'm glad you're joining us today. You guys will say hi. Welcome everyone.

Sjoerd - 00:40

Yes. Hey.

Bourjois - 00:41

Hi everyone.

Kees - 00:47

Yay. Hello. Hello. Just to muted myself.

Rochelle - 00:52

Hey, thank you guys. Okay, so let's jump right. In short, a big topic in our community is about of course mainnet and we released the data about it. But I'd like to bring to the forefront today a bit more about phase three of the test grid and how some of those things that we're doing during this phase makes it's going to make ours have a very successful mainnet release. So can you tell us about the bug fixes we've been doing and enhancements by the technical team?

Sjoerd - 01:29

Yes, yes, of course. Thanks Rochelle for this question. That's a very good question. Mainnet coming up. Test grid going on. It's a really exciting and busy times here over at the Nosana team. So yeah, as we look ahead, our primary focus has really shifted towards our mainnet release. It's scheduled for January, right. 14th of January. We will go live with Nosana mainnet and this is a very exciting milestone. A lot is happening behind the scenes and what we've did is we just compiled this like this huge list of deliverables and are diligently addressing like each issue and feature one by one and also simultaneously. But I think at the forefront of our preparations are two critical areas. These are the pricing for the GPUs and the quality assurance over those GPUs.

Sjoerd - 02:24

So we're actively working on understanding like what people are willing to pay for GPUs and while still remaining, you know, competitive in the market as well as, you know, how can we guarantee and monitor performance across our entire grid of all available GPUs. So these are really like, I think the core objectives that we've put for ourselves and that have to get into place before mainnet and yeah, well, some of these challenges are like pretty straightforward to tackle, others are more complex to do. But yeah, I'm pleased to report that we're making great progress and are on track to meet our deadlines for the January launch. But yeah, to answer your questions on some of the updates and bug fixes we've done I just got a list here.

Sjoerd - 03:10

So yeah, we fixed a bug that caused nodes to freeze for jobs with very long logs. So this is enhancing the overall stability of the system, I would say. So these are sometimes we have jobs running on the network that produce a lot of logs and before we've implemented this bug fix, this could really make a node freeze, which made the overall system a little bit more unstable. So super happy we fixed that. Additionally, we've implemented dynamic pricing which I like very much. So this is allowing the market prices to update every hour based on the current valuation of our native token nos. And this provides users with a much more accurate and fair pricing structure on the entire network. Other than that, the node API is also being enhanced. This is for better direct interaction with the host service of each node.

Sjoerd - 04:15

And this improvement will facilitate features like streaming logs, status checks, making it easier for users to keep track of their jobs in real time as well. So that's super nice as well. Other than that, Daniel from our team has been leading the refactoring of the Nosana node TypeScript code, so streamlining our code base basically. And this makes it much simpler for our team to add new features, improve existing ones, et cetera. So that's also a great improvement that's really happened under the hood on our side to make our deployment speed much quicker. And lastly, we've significantly reduced strain on RPC providers which has resulted in improved performance across the board, really.

Sjoerd - 05:05

So Solana congestion remains an issue unfortunately, but we're battling against it and have implemented various load balancing failover techniques to make the interaction with our smart contracts just basically a lot more smooth. So overall I think many things happening and being worked on, but thanks for the question Raquel.

Rochelle - 05:27

Great, thanks. That's a lot of things, but that's not all. There's some equally exciting things that Ben and Kees have been working on. Now Ben and Kees are part of our AI team and they've been busy shipping out some cool stuff. Kees, can you tell us about some of the work you've been doing with LLMs on our network?

Kees - 05:49

Yes, thank you very much. Me and Ben, we've been working on getting LLMs running on the Nosana network. There's a couple of open source frameworks on which you can run a multitude of models. The most popular of One is Llama 3.1, which has multiple variances in size, but in order to get them running that was a task. But then after the running you want to know how well are these things performing and how cost effective are these if clients are going to use them, what do they need to pay and what performance are they going to get?

Kees - 06:25

So for that reason, and on top of that also to see get a nice clear overview of nodes and how well they are performing, me and Ben made a leaderboard and on this leaderboard we showcased both the performance of LLMs and image generation for a multitude of frameworks. Yeah.

Rochelle - 06:50

Super cool. Is there a central place on the back end that helps you and Ben see what's going on with the grid?

Kees - 06:59

Yes, recently Jair, and he's still working on it, he's made a nice database which we can use to update the leaderboard and to analyze the data of all the nodes.

Yeah, there's a nice dashboard you also made. Yeah.

Rochelle - 07:21

Oh perfect. And then I'm sorry, I might have gone out of step a little bit. The updates to the node leaderboard.

Kees - 07:34

Yeah, yeah, updates to the node leaderboard. All right, so we already had the node leaderboard before, but. But since a month ago or something we added more open source frameworks. So right now we have vllm, which is probably the most popular LLM framework open source. Right now we have dgi, which is from huggingface and we have LLM Deploy, which was the best performing LLM framework and they're all working and we can run all open source models on them. Of course it depends on the gpu, what size of a model you can run, but yeah, it's all working. And all the data is also now on the leaderboard. On top of that we have also added onto the leaderboard Instead of just one image generation framework, we have four now which are probably the only four out there.

Kees - 08:26

The most popular of which is automatic 111. Then you have ComfyUI, which is like drag and drop with nodes in between. It's really fancy. We have what's the other one Invoke AI, which is also drag and drop. And we have Forge, which is a really fast one and all the data is also visible on the node leaderboard and then you can see how much you pay. Like you can get, I think on a 4080 you can get. What's it there? Yeah, it's like 77 images per minute, which is really cheap, A lot for a really cheap amount. Yeah, those are the Nosana leaderboard updates.

Rochelle - 09:13

That is really cool. That's a lot of information that's now at everyone's fingertips, both externally seeing the node leaderboard and then internally with the admin dashboard. Keep up the good work, Jair and Kees. Of course, Ben I think he'll be joining us on the next call. Stay tuned for that one. But with the leaderboard, since it's so useful. There's also another useful tool that we haven't mentioned yet, and that's the recently revived Explorer. So thank you, community who gave your feedback and suggestions about the Explorer. We heard you. Thank you. We're constantly shipping out updates. But short, can you tell us about the most recent revisions of the Explorer and which ones have you the most excited?

Sjoerd - 10:06

Yes, yes, of course. Rochelle, this is indeed exciting. Yeah, we're thrilled to have introduced the redesigned dashboard, really? Which now features the improved Job Explorer. So previously you would go to explorer nosana IO. We're hosting our services now under nosana.com and the explorer has actually been integrated into the dashboard. So today users and people that are interested to see what's happening on the network or staking, they can go to dashboard.nosana.com and find both the Job Explorer Market Explorer as well as the Staking interface. And this central hub allows you to interact basically seamlessly with the Nosana network. So both the Explorer and the Staking UI have been completely redesigned. I've heard we got a lot of positive reactions already from the community around the improved dark mode that you can toggle in the dashboard. So that's great.

Sjoerd - 11:07

I think overall the improved designs really fit the Nosana branding much better. So, yeah, I think it really looks great. It definitely has improved a lot. So yeah, we'll definitely invite everyone to go over there to see the improved designs. And yeah, for those of you that are using the Job Explorer, really, you might have noticed significantly quicker responses and loading times. So this improvement stems from our new indexing of the Solana blockchain that we're doing on each Nosana transaction. So transactions that have to do with, you know, gpu, leasing, staking, like basically all Nusana transactions, are indexed on our side as well. So both on the blockchain as well as we're sort of maintaining a sort of cache to make sure we can respond to these requests much quicker.

Sjoerd - 12:03

So previously were communicating directly with the Solana blockchain via rpc, which at some point was causing like big delays. So the fact that we're getting close to this big milestone, right, the 1 million inference hours and all the hundreds of thousands of on chain transactions that we have meanwhile done with Nosana, but that really put a strain on how we previously built the Job Explorer. So, yeah, I think we're all really delighted to see that this change has made A very noticeable difference in, you know, when you're navigating the Nosana network and all its jobs and transactions that are going on. Yeah, and I'm just super excited that the Job Explorer staking UI which you can find now on the dashboard, but these are only like the first things that you can go to directly from the dashboard.

Sjoerd - 12:52

There will be many more things to come. Like one feature I can, you know, as a teaser already tell you guys I'm particularly excited about is the introduction of the USD pricing. So the dollar pricing for each market and all the jobs as well as the job builder for example. This is another cool thing that we're working on. It's an interface to make it incredibly easy for users to create AI jobs and inferences on our network with just a few clicks directly from your browser. Stay tuned everyone for more updates to come. Really excited about all the things that we have released and are building on right now.

Rochelle - 13:38

Oh yes, thank you. Yes, this is amazing and to keep talking about this and going forward. One of the most recent changes that we made in Test Grid is the requirements of nodes to stake in order to join a market. So we've announced this for phase three and we also said that it's going to remain a requirement at the main release. But short. Can you touch on the basics of this and why it's important for the health of the grid and the project overall?

Sjoerd - 14:09

Yes, yes of course, it's a very good question. Thank you for. Yeah, the question regarding the recent changes in Test Grid for staking and the requirements to stake for joining a market being a GPU operator like as announced for phase three and confirmed for the mainnet release as well, all needs will need to stake in order to participate being a node. So the exact staking requirements vary depending on the market that you want to be in. As a node like most markets today have a minimum staking requirement of 100 NOS. However for example for the higher end markets like the H100 for example, the requirements can be greater. I think the H100 is the highest requirement we currently have, but the staking mechanism is really designed to ensure the commitment and quality within the network.

Sjoerd - 15:03

So like I mentioned earlier, this is one of the primary focus points we are committed to right now and having this proof of stake from each node, just make sure we know the nodes are really putting quality forward. Right. So that's the vision behind the staking to assure quality on the network.

Rochelle - 15:26

Really I think that is as well. Thank you very much for that. Those were some great Updates and insights about our development heading up to our main release. It is going to make January an exciting start to 2025. And speaking about dates and exciting things, we've had quite a few events happen lately. September was packed full of them. And were some of you able to meet up with the team in person? I think I remember a few community members named who were bragging about meeting the team. So my teammate Bourjois is always out and about, and we're so lucky to have you here today with us and help take us through some of these events and your experience. So what was the most entertaining thing for you at the networking breakfast we had that we put on? Was it the day before World Summit?

Bourjois - 16:24

Hey, can you hear me properly?

Rochelle - 16:26

Yes.

Bourjois - 16:27

Okay. So, yes, it was super exciting. The networking dinner was awesome. So first of all, shout out to the marketing team for singing up this great work. It was a great success. So the most entertaining part was personally definitely the chance to connect with the community partners and curious newcomers in our city, Amsterdam, our hometown. And it was the perfect warmup before World AI Summit. For what reason? Because it basically allowed us to introduce a platform, a product and everything we're building to a more AI focused audience with many, I would say, established traditional players within the AI ecosystem. And we could directly answer to the questions, but also see what were the tendency and see if our assumptions were relevant and so on.

Bourjois - 17:22

So it was really good to discuss with them, exchange about the challenges they want, their needs, and see if, in our case, we're moving in the right direction. And that was super exciting from my point of view, because you can definitely feel the energy of the people. They're excited to discover a product like Nosana and they want to know more about it. And so that's why I would say networking event was very inspiring and a game changer for us, knowing that now we know better. I would say the Amsterdam AI scene. And we made ourselves good names and now we build some very good relationship that we are ready to leverage over the long term.

Rochelle - 18:04

Oh, perfect. And then it continued on to the next day at World Summit AI, we had a booth. We shared some pictures about it, and Jesse held a tech talk. But before we touch on his tech talk, let's talk about the booth. What did people get to do there besides meet the team?

Bourjois - 18:23

Yeah, the booth was awesome. Like, your first one was beautiful. So again, marketing team, 10 out of 10. So it was great. And yeah, like, what was great as well for, I mean, from the feedback that I heard from the crowd is they could straightaway explore platform they could discuss for instance with our AI engineers. So Matt, even case here we could give a few demos to a couple of them. And the most exciting part, and that's a big shout out to shoot for the idea was the lego. And the most exciting part, and that's a big shout out to shoot for the idea was the Lego. The LEGO Millenium Falcon giveaway was just amazing. But we are also very, we are also listening a lot to the different questions of people and so on.

Bourjois - 19:24

So I think the whole experience on the technical fun part was just perfect. And yeah, again, shout out to S and the marketing team for Singapore. And yeah, again, shout out to Sjoerd and the marketing team for Singapore.

Rochelle - 19:37

You know this works. And I've seen that LEGO set, it is so many pieces. So I hope the person who won that giveaway really enjoyed it and thought about no and sticks around with Nosana for quite some time in the future. But back to Jesse's tech talk. Can you fill us in on what that was about?

Bourjois - 19:59

Yes, that talk was amazing. Jesse is very good at it. And to make a long story short, the talk was about the mission. So Nasana's mission, the vision and all the features. So Nosana's mission, the vision and all the features. And also what was great is that Jesse showcased one of our use case with one of the awesome partners client. So yeah, so basically the main topic was going again through the massive challenge around compute. It's hard to have access to for certain players, for companies, for whatever, for whoever. It's hard for them to have access to compute. And during that presentation Jesse really showcased what were the challenges and he dive into the details. I won't share too much here because the presentation is obviously available on YouTube.

Bourjois - 20:59

But to make a long story short, like the mission of Nasana is to make, you know, is to make COMPUTE more affordable and accessible for everyone. J ensures they were students as well. They faced this challenge and that's why they decided to dedicate their life to this. And that's why it was beautiful. And that's why I think this talk is great because it's very insightful obviously because JC&TR had been in the trenches for years and they have a lot of stuff to and insight to share with the, with the audience. And that's why I think this talk is great because it's very insightful obviously because Jesse and Sjoerd had been in the trenches for years and they have a lot of stuff to and insight to share with the, with the audience.

Rochelle - 21:35

Awesome. And you did mention it, but where can we see it if weren't there in person or just want to watch it again?

Bourjois - 21:42

Yes, I would say on YouTube first and my second advice is to really, really subscribe to all different social or different channels because sometimes there are even more content that would complete that video. And yes, we have so much, I would say details and information and insight to be shared from AI Engineer, from Jesse, from Shul for anyone. And yes, we have so much, I would say details and information and insight to be shared from AI Engineer, from Jesse, from Sjoerd for anyone. So I would say definitely follow us on the different socials.

Rochelle - 22:15

Perfect. And speaking of socials and subscribing to notifications, we see a recent Nosana tweet mentioning an upcoming event, Crypto AI Con in Lisbon. Can you tell us more about this event that's coming up for the team?

Bourjois - 22:31

Yes. So the event will be, as you mentioned, in Lisbon, it will be early November and there will be. Jesse will give a keynote. It will be there with Odeval David. It will be there with our devrel David. So if you're like in Lisbon, make sure to pass by, you can meet them, you can send a, y. ou can connect with us on Twitter or on Telegram or Discord or whatever and try to set up even an appointment. It will describe as well the specific features of a product and how we make sure that we make again compute affordable and accessible for everyone.

Bourjois - 23:23

Besides that, what we are doing is if you can meet us at this event, we are preparing a full list of the event we will attend in 2025 and also in Q4 and we will share it as well on the social. So make sure to follow us on Twitter, Discord, all the socials so you don't miss out.

Rochelle - 23:44

Great. And diving a little bit deeper into these events when you're at them, you get to introduce, you know, sauna to people, network with cool people and projects which can lead to partnerships. And diving a little bit deeper into these events when you're at them, you get to introduce, you know, Nosana to people, network with cool people and projects which can lead to partnerships.

Bourjois - 24:07

Okay, absolutely. And that's a great question. Events are great. They are a cheat code to success, I would say because at event you can listen and you can get access to information so you can meet the different partners, the client, the suppliers, we can meet everyone, all the stakeholders. And that allow us to really understand value proposition, the challenge they want, they need, but also to build trust, you know, and to foster the relationship. So obviously we all work remote and so on, but nothing is compared to face conversations and really understanding all these points from the different stakeholders, the different actors in the system. So that's why the event is so important to us.

Bourjois - 24:55

They allow us to really go every time to the next level and we can see it with our KPIs and, but also with the, all the meetings that we have after the event. So connecting with all these industry players allow us as well to share like challenges on our side as well and the best practice as well. So you know, that's how you can also set up the right priorities in terms of the features that need to be developed on the technical side, but also on the non technical side. And beside that's also how you provide the best user and client experience. Because we listen to them, then we understand them and then we want to make sure that we implement anything to make them happier. And as the things say, like happy client, happy life or happy users happy life.

Bourjois - 25:50

And that's all we're doing. And that's why I think like we are, we're having a good time and a good momentum right now. Hello.

Rochelle - 26:08

Oh, I'm here. Great, thank you. Yeah, that's, that stuff is just really cool. And I think it's time to hand over the hosting mic to short.

Sjoerd - 26:21

And I think it's time to hand over the hosting mic to Sjoerd. So for this part, I like to take over the microphone for a second and act as the host, if that's okay with your. So we can focus a little bit more on the community because there have been a number of community programs and initiatives that are worth talking about. Right. So to start, could you perhaps Rochelle, tell a little bit about the recent Archeum quest that has taken place? So to start, could you perhaps Rochelle, tell a little bit about the recent Arcium quest that has taken place?

Rochelle - 26:53

Thanks. Yes. Oh my gosh. Was this quest so popular? And it ended just this morning. So it started last Thursday on the 23rd and it was week four of Arc Citadel and the Four Fortress quest. So it started last Thursday on the 23rd and it was week four of Arcium Citadel and the Four Fortress quest. Dedicated to Deepen. Dedicated to DePIN. So for this quest, people had to join our discord, visit our website, stake some NOS, and then mint the really cool Fortress nft. Yes, 300 nos. That's quite a bit of money. So I'm pleased to announce that the raffle's taking place. We have a winner and it will be announced, I think maybe as early as tomorrow. Stay tuned for that announcement. I know you guys are all excited about it. I am too.

Rochelle - 27:48

I can't wait for all of us, Archeum and I and the rest of the team to announce the winner.

Sjoerd - 27:55

I can't wait for all of us, Arcium and I and the rest of the team to announce the winner. Wow. Thanks for explaining that Rochelle, very excited to hear who the winner will be tomorrow. And in terms of growth, anything to share around the numbers and new members that you know are joining the fun now in our community as well.

Rochelle - 28:13

Yes. Oh, my goodness. So we had an amazing response from this quest. Guess what? Over 2500 new members are in our server now and the number of stakers has increased also, which I think is great for us. I have spent the past week enjoying meeting so many new people in our server and I would like to specifically thank and give a shout out to our mods and our other fellow community members for welcoming these newest community members and giving them such a warming and welcoming experience, which of course, what we strive for every day in here. So our community is amazing. So thank you. Round of applause for all of you. Well done.

Sjoerd - 28:56

Nice, Nice. Super exciting. Really impressive and nice results. Happy to see so many new faces in the. In the community. So, Rochelle, do we have anything coming up that the community can participate in?

Rochelle - 29:11

We do. We have an exciting event to talk about that we're breaking here today

right now. It's called nosevember.

Sjoerd - 29:23

Nose Fember. Nosvember.

Rochelle - 29:27

Okay, so this is something that is sort of a de facto community and marketing team effort. Fun fact. Back in July, we had a user in the Price channel, you know, doing some chart analysis and some predictions and they said November is going to be pumping or crazy or. Or something like that. And our community member Luzo responded to that and said it's called November. And our community member Luzo responded to that and said it's called Nosvember. And you know that really that our community is awesome. And you guys, when you say things like this, we as a team, we're always watching and we're always paying attention. And that bug kind of grew in the background. And I want to thank Sean and the marketing team for coming up with this as it being a thing that we wanted to really champion.

Rochelle - 30:37

And the marketing team came up with a crazy plan and such an amazing, exciting program for us to have all month long. So, yeah, it's going to be amazing.

Sjoerd - 30:54

Awesome. Really cool. So, yeah, what can we expect to see during November?

Rochelle - 31:02

So, yeah, what can we expect to see during Nosvember? And I don't want to give too much away because our huge amount is coming out tomorrow about it. But I will tell you there will be weekly challenges. So the first challenge will be announced tomorrow and it won't start until Monday the 4th. And there's going to be a special XP leaderboard for the month. So right now we have a leaderboard and that's been running since the dawn of time, you know, and it lists like who's had the most XP experience points for, you know, your interactions. You gain it, you know, every minute you're chatting and you know, adding little emojis to things and stuff like that. So, so we're gonna, I'm gonna take a snapshot tomorrow and then wipe it because at the start of November that is gonna come into play.

Rochelle - 31:58

It will be one of 10 of the awards that we're gonna be giving out. So each weekly challenge will have an award that the person who wins it gets and then some more awards. One of it being, you know, the person who had the most experiment for the games. And then the award ceremony will be on our next community call, which is November 28th at the end. Don't miss it. But one cool thing is that during this entire month at any given time and randomly there will be a surprise pop up and if you are the first person to, if you like react to it or whatever, it'll randomly choose someone who wins that, whether it's server XP or NOS or whatever. But you have to be in the server and see that message and interact with it to be put into the running.

Rochelle - 32:57

So at any given time you can be getting NOS or more XP towards, you know, that one award. And yeah, there's going to be so many things all month long. I know you guys are going to have a ton of questions here. Oh, in about 10 minutes or so there'll be postings in discord and telegram about no spenders. So bear with me, don't flood me with tons of things questioning and stuff while the call is going on. I'll be around to answer a whole bunch of stuff. But not everything will be revealed. You have to wait till tomorrow for some crazy details. But don't worry, everyone will have plenty of time to prepare for the challenge before it starts. So yes, that's no spember, as much as I can tell you right now.

Sjoerd - 33:49

So yes, that's Nosvember, as much as I can tell you right now. Definitely looking forward to it. Nosfer, let's go.

Rochelle - 33:55

Nosvember, let's go. It's going to be an epic month. I'm really excited for it personally. I will be all over this. So thanks again marketing team for making such a great plan and I hope to execute it beautifully for you. But let's dive into. Speaking of the community, a few questions we've received. The first one is about multi GPU capability. So sjord, when will we have it?

Sjoerd - 34:24

So Sjoerd, when will we have it? Multi GPU capability. That's a great question. Multi GPU capability is actually already Possible on our current offerings. You can go into the Explorer, the dashboard. There you will be able to find the enterprise market with a times a 5000 GPUs. So these are computers or servers which have a multitude of GPUs inside them. And currently we're actively investigating how to utilize these setups in the most optimal way. While also clustering is a possibility. Right. It's a feature we don't have currently implemented on osana. We have explored some tools to do so, but we believe we can implement clustering as well if the need arises. But yeah, like what we see is that for inference, so for artificial intelligence inference, those types of tasks, we generally observe that most of these jobs run fine on single GPUs.

Sjoerd - 35:29

So that's. Yeah, that's really where we are at the moment.

Rochelle - 35:37

Oh, great. Thanks for explaining that a little bit better. It's a question we get a lot and of course we love explaining. So I hope those of you who have asked most recently heard that. And of course the next popular question, and one that can be evolving at any time, is when will we be able to use Apple devices to become a node? That one is super popular, right?

Sjoerd - 36:03

When can we use Apple devices to become a node? Yeah, that's another great question. Yeah, I think just like, you know, with Intel, AMD and other popular brands of GPUs, we are exploring the possibility of onboarding these chips. So Apple devices being one of them. Currently, Nvidia is really most favored because it's so exceptionally well at performing or running the AI frameworks that are used today. And that's also the reason why in the Nosana grid, currently you only exclusively find Nvidia chips. However, we are seeing more and more workloads that perform well on other GPUs as well, and other GPUs like Intel for example, and Apple 2, they are improving the ways that they can run large language models and that they can, you know, run image generation models.

Sjoerd - 36:55

So while we can't provide you with a specific date to this question, when Apple GPUs will be able to become a node, it's definitely on our radar. And this capability will be explored after the mainnet has gone live for sure.

Rochelle - 37:10

Excellent, thanks. Yeah, things move so fast all the time, it's great. Speaking of that ties in with it. Are we onboarding new nodes during this phase three?

Sjoerd - 37:23

Are we onboarding new nodes? Yeah, I get the question also a lot. So currently we're not really actively onboarding new nodes onto Test Grid Phase 3 in our existing grid as the existing grid we have is sufficient for the clients that we currently have on the network and all the various tests that we are running. However, as we gear up towards mainnet and we will be onboarding more clients like Bourgeois also just mentioned. However, as we gear up towards mainnet and we will be onboarding more clients like Bourjois also just mentioned. But when we do we will definitely announce that across our community our socials to source those devices because we get these questions a lot. But right now we're not onboarding.

Rochelle - 38:16

Thanks. Thanks for that. Like I said guys, awesome community. Thank you all who have turned in to this call today. Thank you all who are constantly providing feedback and being here with us every day on this journey. It means a lot and of course thank you my team, Jord, Bourgeois and Case for joining me today. It means a lot and of course thank you my team, Sjoerd, Bourjois and Kees for joining me today. Be sure to watch out for tomorrow's announcements about November here. Be sure to watch out for tomorrow's announcements about Nosvember here. Or should we say November now?

Bourjois - 39:00

Or should we say Nosvember now? Let's say Nosvember now.

Sjoerd - 39:03

November.

Bourjois - 39:05

Nosvember.

Rochelle - 39:09

Nosvember. Thank you everybody.

Sjoerd - 39:11

Thank you.

Bourjois - 39:11

Thank you, thank you.

Sjoerd - 39:13

Bye bye everybody.