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THE BREADTH AND DEPTH OF THE VALUE CHAIN

VIDEO TRANSCRIPT

Patrick Moorhead: So let's let's drill down into each of these. So first of all, you talked about a long litany of of people who are involved in this, dare I say, value chain. And you just released a a very robust report, 100 pages outlining the very deep and wide semiconductor supply chain. And but first of all, I'm glad you did it. A lot of the questions that I get either from the press or even investors, are mostly around designers, designers that don't have a fab or might not even invest in their own transistor technology or something like that. Can you talk a little about the report, its breadth and depth, and then maybe who the audience is and what you want people to walk away with?

Syed Alam: Yes, you're absolutely right. There is a need by the industry executives, not only semiconductor executives who understand this very well from OEMs or other executives from the ecosystem want to learn more about the semiconductor value chain. Plus the policymakers and additional stakeholders who are getting involved in more and more semiconductor topics now. And there was a need for having a comprehensive view of how the semiconductor ecosystem or value chain looks like. Who are the key players? Yeah. What is made where? You know, what is in done in which country? So we took a stab at doing a very comprehensive report, looking at the whole semiconductor value chain, starting from the design and actually do layers before the design, right? That's needed to get the chip design, then the manufacturing and then assembly and testing also. And then there are layers involved in each one of these because you you see the value chain at the top layer. Then there are companies that are supporting those and then the companies supporting those also. So to get a very good understanding of what's involved in the whole value chain so that people have a deep understanding and it's becoming more important as we saw in the shortages.

Patrick Moorhead: Yeah. So do you talk about leading edge and dare I say lagging Edge? And by the way, I have to come up with something other than lagging edge, because if those semiconductors were the in the biggest shortage. But how far do go? Do you separate the types of technologies as well?

Syed Alam: Yeah. And to your point, sometimes called trailing edge or trailing node also.

Patrick Moorhead: But it still sounds like a negative. Yeah.

Syed Alam: But you know, today's drilling node was the leading node of yesterday. Yes. So that's also the point there. The other thing is this. We segmented it because we looked at it from the leading node perspective and the trailing node. Yeah. Perspective also.

And there is certain industries, certain applications actually use trending. And we saw actually in the recent past that a lot of shortage was from the trailing node perspective. Right. And even if your application has a leading node chips, if you don't have the trailing node or make or some other, you cannot ship the whole system. So each one of those, whether you call them leading node, a trailing node deeply have very crucial role in getting our product out. So the capacity is needed for all of these. And we looked at it from this perspective also.

Patrick Moorhead: And I've I've been fascinated with even the specialty technologies that goes into things like photonics as an example, or even RF with materials or different methods so that it is fascinating. So one stop shopping, 100 pages. I didn't make it through all hundred, all of it. I, I read the executive summary. Yes, but it's a good place to go if you have any questions on it.