
AWS
re:Invent
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Accessibility sparks innovation: Democratizing access to hearing devices

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What is disability?

17%
of the world's population[1]

1.3B
people with a disability[1]

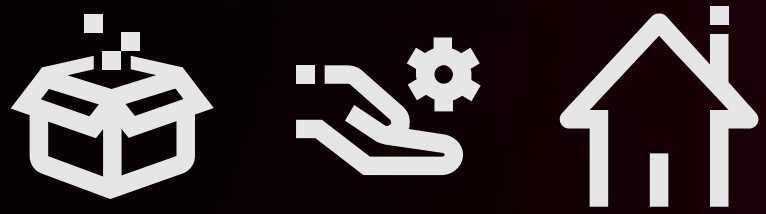
70%
of disabilities are invisible[2]

1. World Economic Forum Closing the Disability Inclusion Gap, https://www.weforum.org/projects/closing-the-disability-inclusion-gap
2. What is an invisible Disability?, https://invisibledisabilities.org/what-is-an-invisible-disability/

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What is accessibility?

Accessibility is one part of disability inclusion



Accessibility is the design of
products, experiences, and environments
that empower everyone to participate

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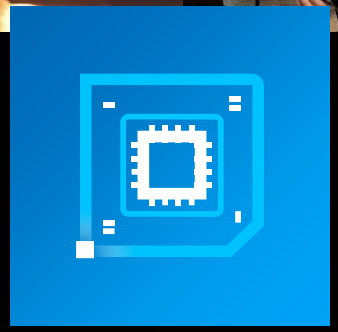
Why Intel is Embracing Accessibility

Technology Mediating Human Connection







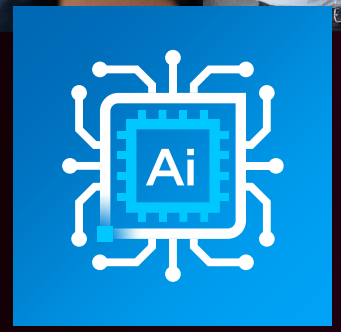
Ubiquitous Compute



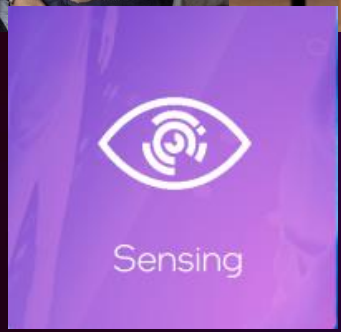
Pervasive Connectivity



Cloud to Edge Infrastructure



Artificial Intelligence



Sensing

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Democratizing hearing devices

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97% of people who need a hearing aid in developing countries go without



Zaatari refugee camp

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Unlocking affordability

SCAN



DESIGN



CREATE



PRINT



FIT



HEAR



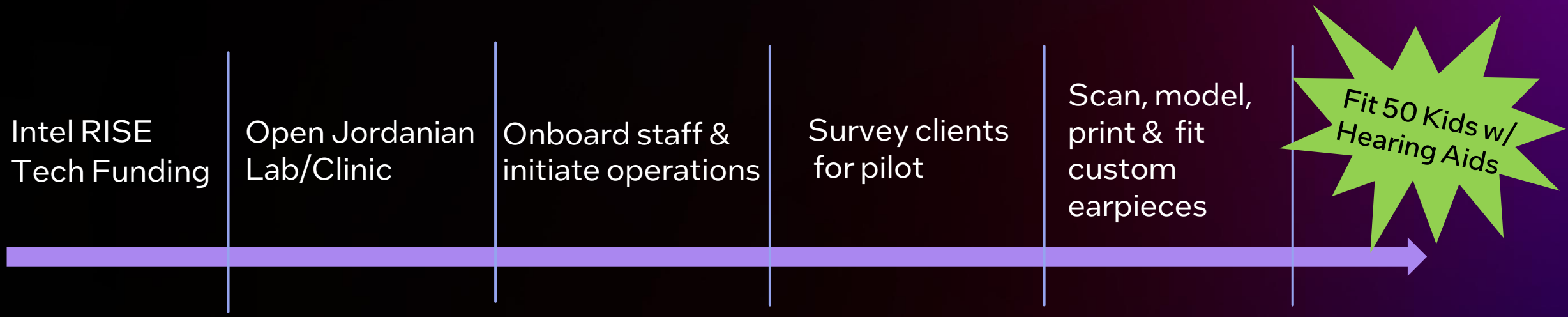
Using mobile **3D ear scanning technology** combined with **3D printing** for optimized fit

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The pilot paves the way for the future

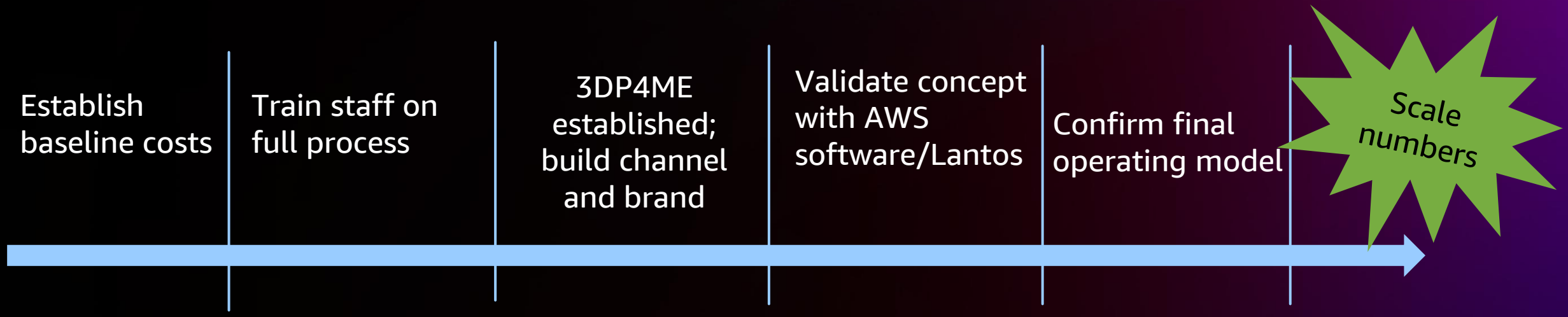
Population Served: *Syrian refugees in Jordan*



State-of-the-art 3D scanning, CAD Design AI Pipeline hosted on Intel Infrastructure (AWS) to model, print and fit hearing aids

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Building infrastructure for sustained impact



With the US recently making hearing aids available without a prescription, we envision being able to service a much larger market segment with this kind of innovation

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Lantos

Dr. Marina Berliner
Senior Clinical Trainer



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Collaboration model: It takes a village









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Thank you!



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