

Increasing software innovation in digital health products through unified cross architecture programming

February 1, 2023 11:30AM-12:30PM ET



Beenish Zia
Chief Architect for Medical
Imaging, Intel Corporation



David BlackmanExecutive Director Digital
Trials Strategy, **Oracle**



Moderator: Sarah Valentine
Partnerships Manager,
Digital Medicine Society



Our purpose

DiMe is a global non-profit dedicated to advancing the **ethical**, **effective**, **equitable**, and **safe** use of digital medicine to redefine healthcare and improve lives.



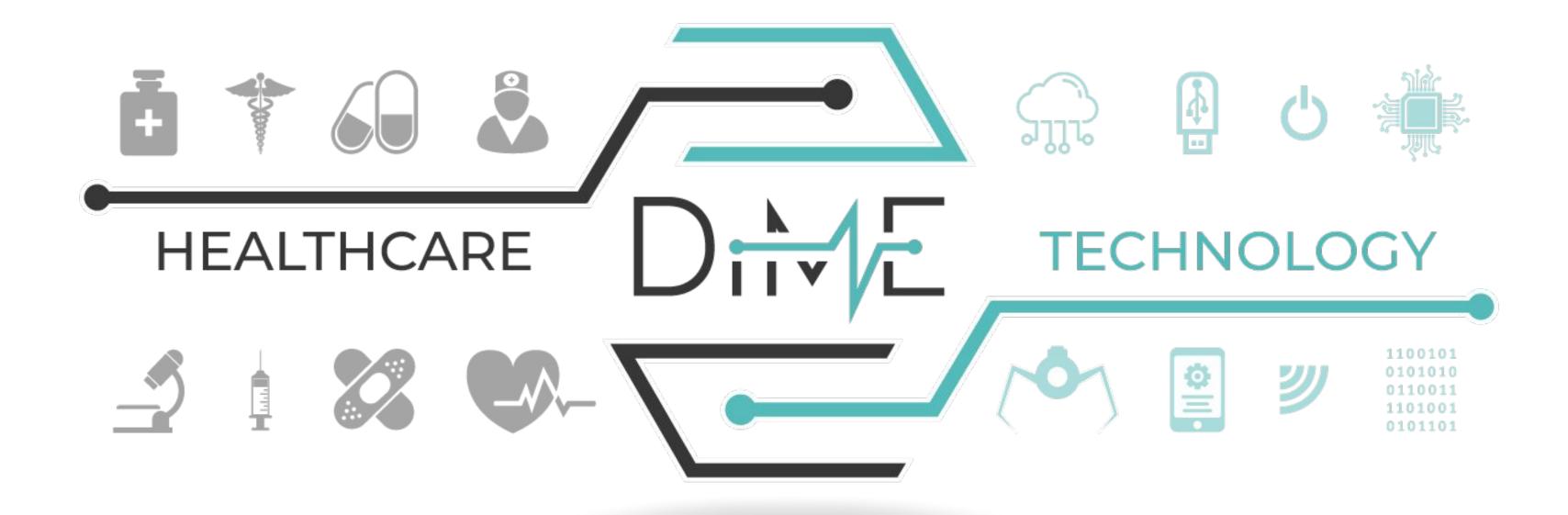
We launched in May 2019...







... and sit at the intersection of two communities



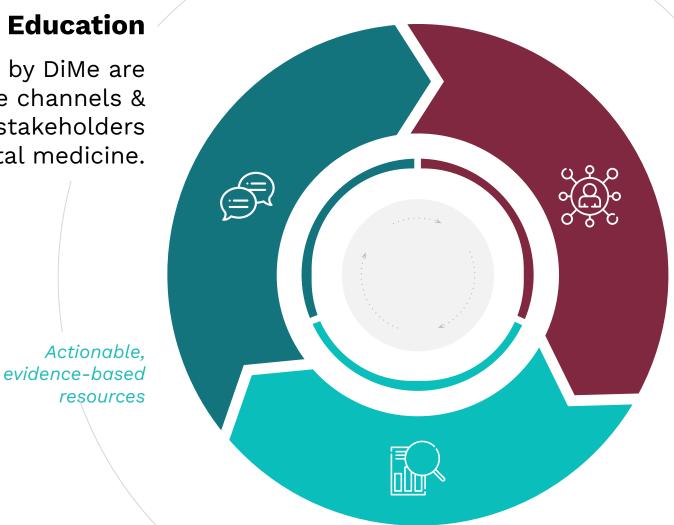


We deliver clinical quality work on a tech timeline

New knowledge & capabilities in the field spark new collaboration opportunities

Communication & Education

Resources & publications generated by DiMe are shared through open-source channels & educations programs, & used by stakeholders across the field to advance digital medicine.



Community

DiMe partners & experts from across tech & healthcare unite to improve health & healthcare through digital medicine.

Greatest challenges & opportunities to advancing the field

Research & Resource Development

Our community identifies the top priorities that are most critical to advancing the field and then, together, we conduct leading research to create clinical-quality resources on a tech timeline to drive progress.

Actionable.



But first, housekeeping

- Please note: today's session is being recorded
 - Slides and recording will be available on DiMe's webinar page after the session
- To ask a question for discussion during live Q&A, please either:
 - 'Raise your hand' in the Reactions and the moderator will unmute you to ask your question live, or
 - Type your question into the chat box



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Increasing Software **Innovation In Digital Health Products Through Unified Cross** Architecture **Programming**

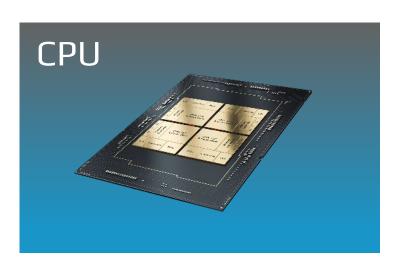


Modern Applications Demand Increased Processing

Diverse accelerators needed to meet today's performance requirements:

48% of developers target heterogeneous systems

that use more than one kind of processor or core¹









Developer Challenges: Multiple Architectures, Vendors, and Programming Models

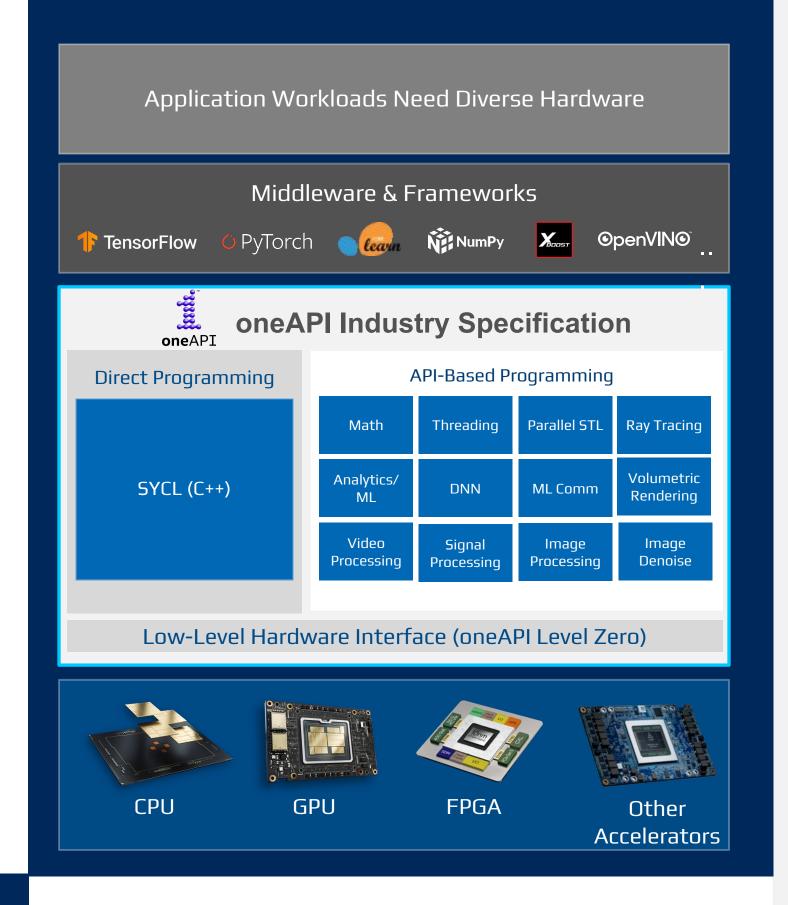


Open, Standards-based, Multiarchitecture Programming

1. Evans Data Global Development Survey Report 22.1, June 2022

Unified Cross Architecture Programming with oneAPI: An Industry Initiative

- Freedom to Make Your Best Choice
- Realize all the Hardware Value
- Develop & Deploy Software with Peace of Mind

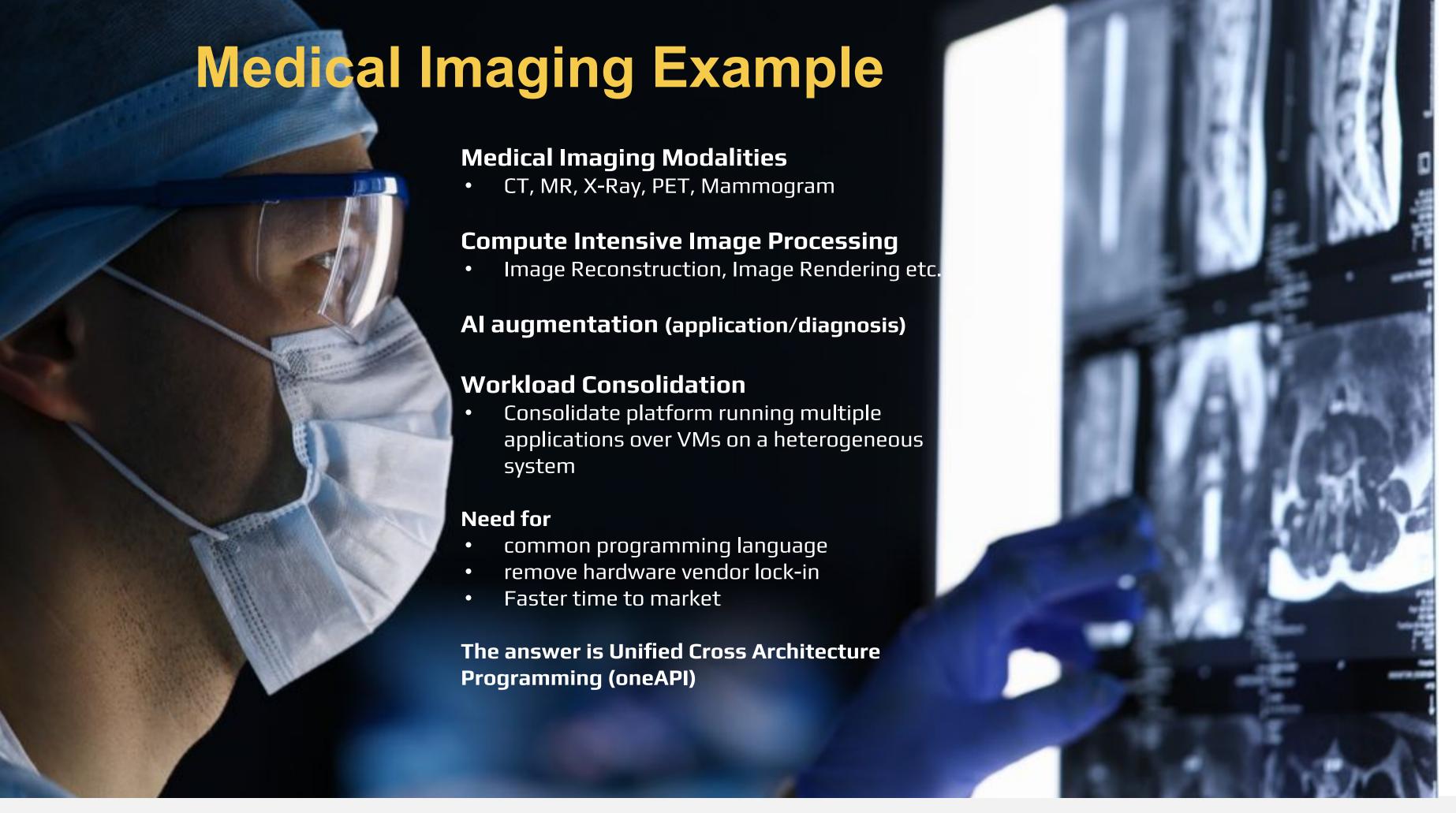




The productive, smart path to freedom for accelerated computing from the economic and technical burdens of proprietary programming models

Visit <u>oneapi.com</u> for more details

intel





Resource in Action



Be a Part of the DmE Community
Resources in Action Hub

Tell us your DiMe "Resource in Action" story and we'll feature it in our Resource in Action Hub!



Submit to DiMe's Resource in Action Hub!

Resources For You To Get Started

oneAPI:

Industry specification via <u>oneapi.io</u>



Github for Open source: github.com/oneapi-src



Code Migration:

Whitepaper on <u>oneAPI for Healthcare: C++ to DPC++</u> <u>Migration Example</u>



CUDA to DPC++: Intel® DPC++ Compatibility Tool



Connect on LI:

Beenish Zia, David Blackman, Sarah Valentine

DiMe Webinar 2023





Virtual Journal club

Applicability of Artificial Intelligence in Healthcare in Resource-Poor Settings

Ask me

anything

Thursday, February 9th, 2023 12pm ET







Mansa Shroff
Director of Business Development,
Chief of Staff
WKD.SMRT

What are YOU doing to increase diversity in clinical trials?

Wednesday, February 15 at 11:00 AM (ET)

Register to Join



Kimberly Barnholt
Sr. Director & Evidence
Generation Leader,
Genentech



Shelli Pavone
CEO & Co-Founder
Inlightened



Dyan BrysonAssoc Director Clinical OpsICON plc



Reginald Swift
CEO, Co-Founder, CSO
Rubix LS



Ashish Chaturvedi Founder & CEO Althea.ai



Pamela Tenaerts
Chief Scientific Officer
Medable, Inc



DIVERSITY, EQUITY, & INCLUSION

SOCIETY

in Digitized Clinical Trials

Executive Director,
National Minority Health Network



R'Kes Starling
Chief Executive Officer
Reveles Clinical Services



Ricki Fairley (Moderator)
CEO
Touch, The Black Breast Cancer Alliance

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THANK YOU

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www.dimesociety.org





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