

This webinar will begin shortly at
18:00 CET | 12:00 EST | 09:00 PDT



KHRONOS[®]
GROUP

Accelerating Machine Learning with Vulkan

May 5, 2022



How to Participate

Speaker Questions

Please submit speaker questions at any time using the **Zoom Q&A button** (not Zoom chat). During the panel, we will put as many questions as possible to the speakers

Help with Meeting Logistics

Please use Zoom Chat for logistical questions or if you are having issues with Zoom

Recording and Slides

We are recording this webinar and will publicly post the slides and video at the Forum Home Page at <https://www.khronos.org/machine-learning>

Survey

To help us design future Khronos Machine Learning Forum events, we appreciate you completing the short survey form that we will distribute after the session

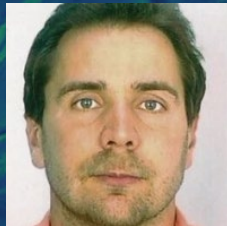
Accelerating Machine Learning with Vulkan



Khronos ML Forum
Neil Trevett, Khronos



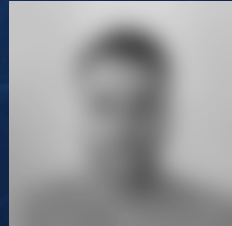
ML Primitives Extension
Jeff Leger, Qualcomm



Cooperative Matrix Extension
Pierre Boudier



IREE Compiler Targeting Vulkan
Lei Zhang, Google

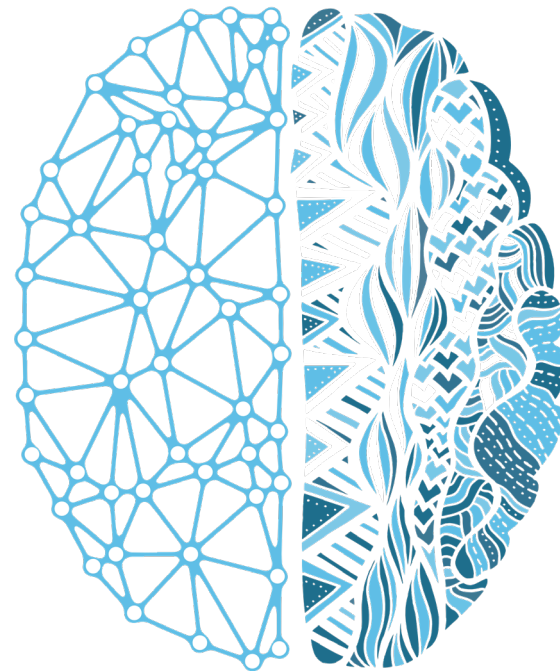


Q&A Panel Moderator
Kevin Petit, Arm



Introduction to the Khronos Machine Learning Forum

Neil Trevett
Khronos President



Khronos Open Standards Mission



Open, royalty-free interoperability standards to harness the power of GPU, XR and multiprocessor hardware

3D graphics, augmented and virtual reality, parallel programming, inferencing and vision acceleration

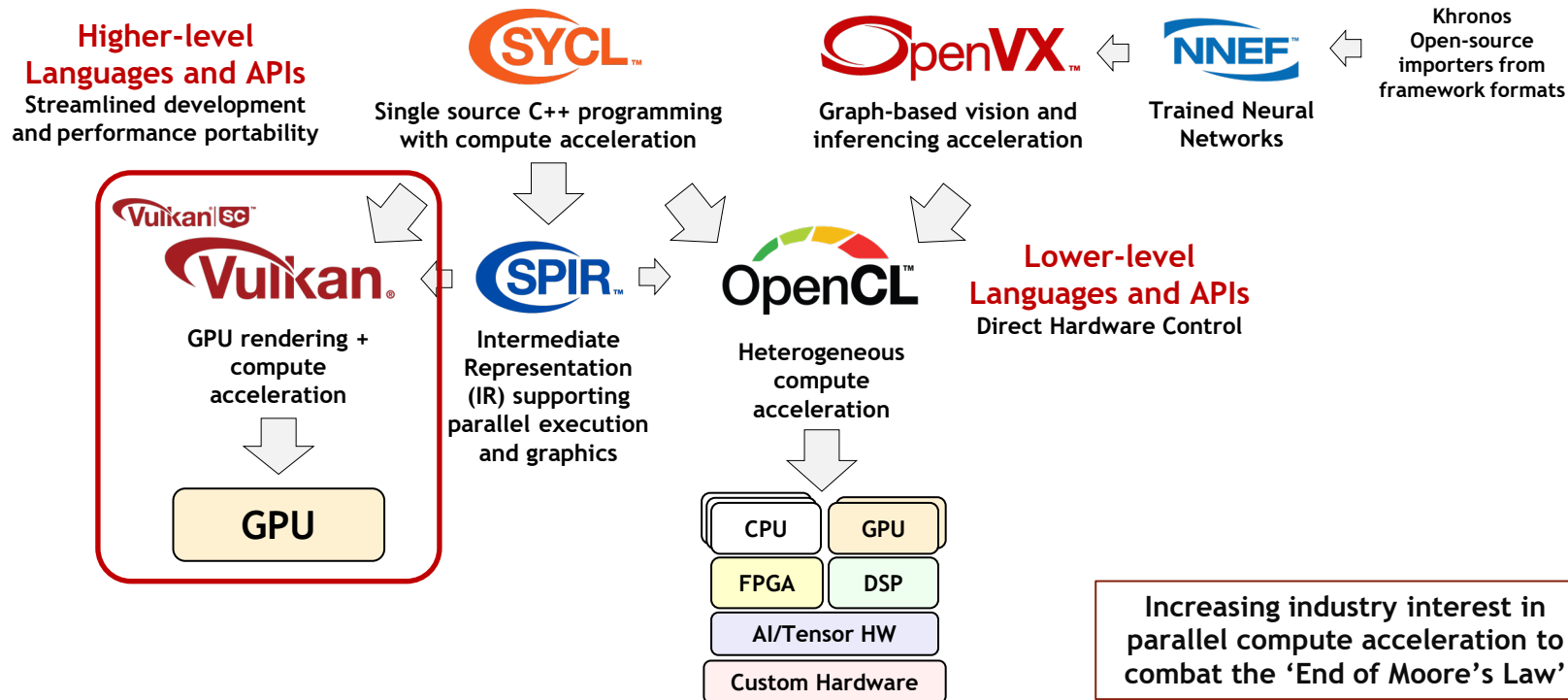
Non-profit, member-driven standards organization, open to any company

Proven multi-company governance and Intellectual Property Framework

Founded in 2000

~200 Members ~ 40% US, 30% Europe, 30% Asia

Khronos Compute Acceleration Standards

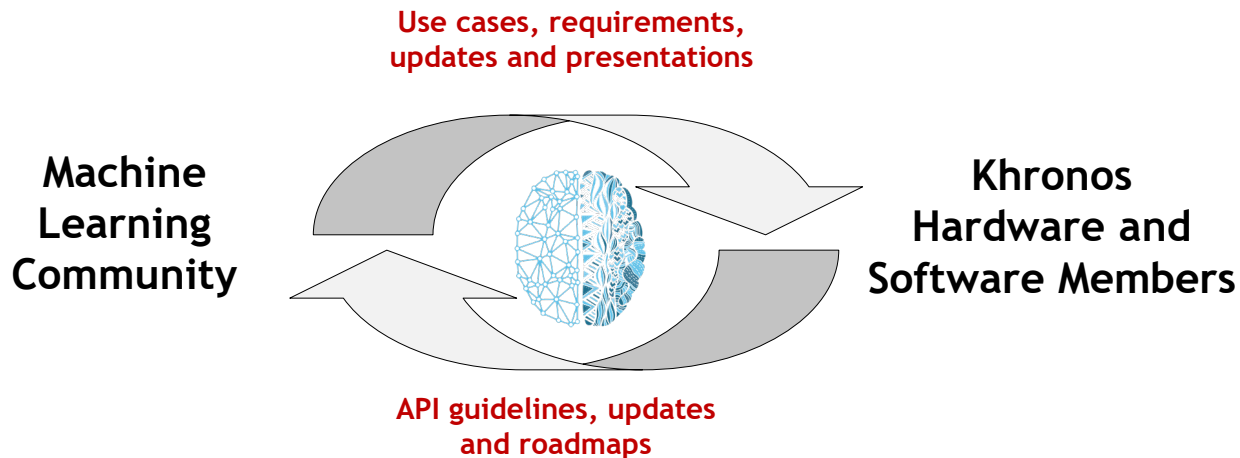


Khronos Machine Learning Forum

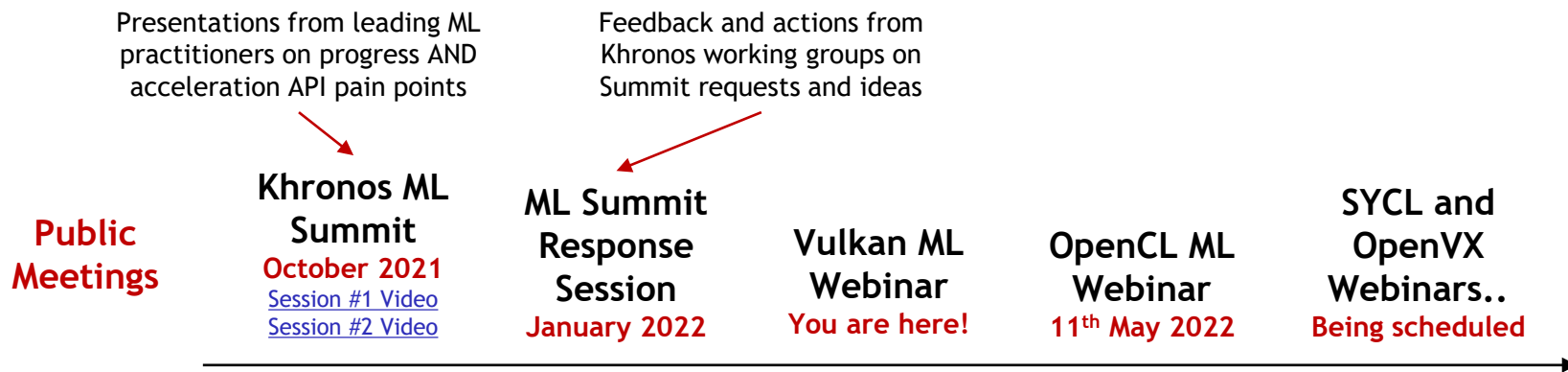
Productive communication and cooperation on ML Acceleration
... between Machine Learning *hardware* and *software* communities

Forum is free to join, no NDA or IP commitments

Dedicated meetings, email and slack channels for group communication



Machine Learning Forum Meeting Series



Forum Member Meetings will start in July 2022

Input and requests for specific topics welcome!

<https://www.khronos.org/machine-learning>
has all the information you need to join!



Khronos Machine Learning Resources

- Khronos Machine Learning Forum
 - <https://www.khronos.org/machine-learning>
- Khronos homepage for all Khronos Standards
 - <https://www.khronos.org/>
- OpenCL Resources and C++ for OpenCL documentation
 - <https://github.com/KhronosGroup/OpenCL-Guide>
 - https://www.khronos.org/opensl/assets/CXX_for_OpenCL.html
- OpenVX Tutorial, Samples and Sample Implementation
 - https://github.com/rgiduthuri/openvx_tutorial
 - <https://github.com/KhronosGroup/openvx-samples>
 - https://github.com/KhronosGroup/OpenVX-sample-impl/tree/openvx_1.3
- NNEF Tools
 - <https://github.com/KhronosGroup/NNEF-Tools>
- SYCL Resources
 - <http://sycl.tech>
- SPIR-V User Guide
 - <https://github.com/KhronosGroup/SPIRV-Guide>



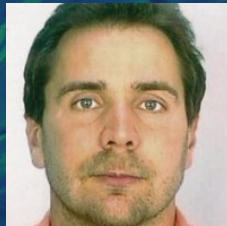
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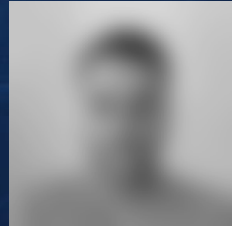
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Ask the Experts Panel

Use Zoom Q&A to ask your questions at any time!

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5 May 2022



Thank you!

<https://www.khronos.org/events/accelerating-machine-learning-with-vulkan>