



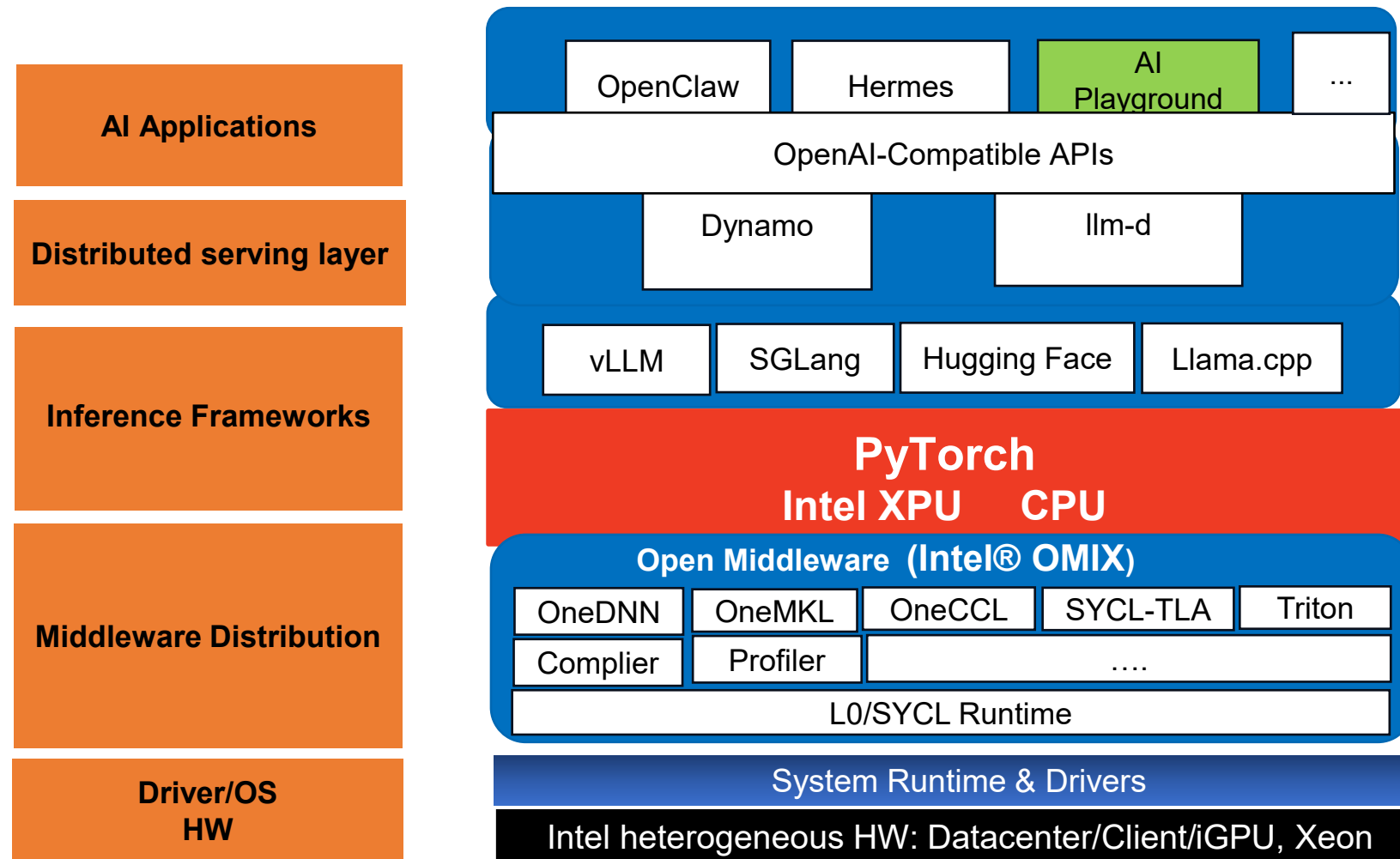
CONFERENCE

—NORTH AMERICA 2026—

AI Playground Home Agent: Remote PyTorch AI Workflows from Your Phone

Ashok Emani | Qiacheng Li | Intel

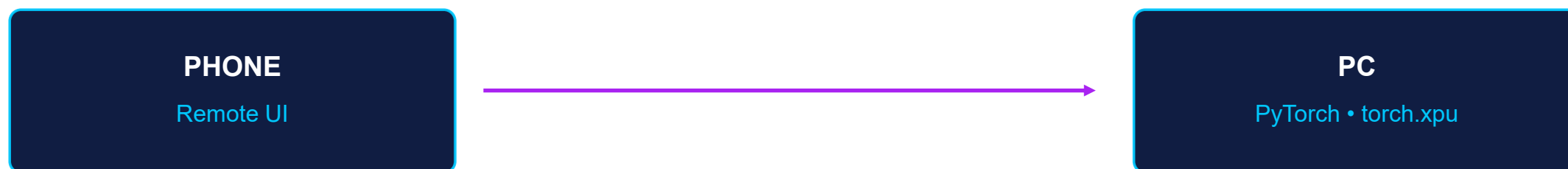
PyTorch as the unified interface to Intel Platforms



AI PLAYGROUND Home Agent

Remote PyTorch AI Workflows from Your Phone

Local Intel GPU • Native torch.xpu



The phone controls the experience; the Intel GPU runs Pytorch workflow locally.

```

195  def get_torch_device():
196      global directml_enabled
197      global cpu_state
198      if directml_enabled:
199          global directml_device
200          return directml_device
201      if cpu_state == CPUState.MPS:
202          return torch.device("mps")
203      if cpu_state == CPUState.CPU:
204          return torch.device("cpu")
205      else:
206          if is_intel_xpu():
207              return torch.device("xpu", torch.xpu.current_device())
208          elif is_ascend_npu():
209              return torch.device("npu", torch.npu.current_device())
210          elif is_mlu():
211              return torch.device("mlu", torch.mlu.current_device())
212          else:
213              return torch.device(torch.cuda.current_device())

```

Two lines in the existing device picker. Upstream PyTorch does the rest.

AI PLAYGROUND v3.2.1

Gen AI Application Suite Powered By Your Intel AI PC

CHAT

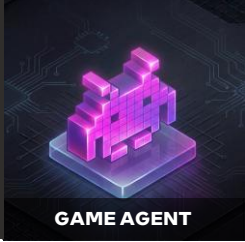
**ASSISTANT**
Choose between OpenVINO or GGUF models (via Llama.cpp) for general knowledge search

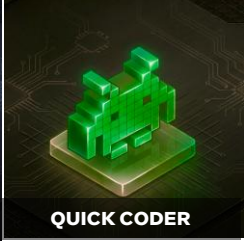
**CHAT WITH RAG**
Easily find and analyze content from text and PDF documents

**REASONING**
Use reasoning models like for deeper & accurate responses

**VISION**
Use Vision Models in GGUF or OpenVINO Format for image analysis in chat

AGENTS

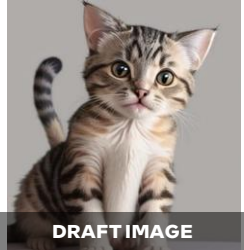
**GAME AGENT**
Use an agent to code a game, test play, debug, then create thumbnail art and description

**QUICK CODER**
Slimmed down agent for fast coding – thinks through coding but does not test and debug

**MCP**
Connect AI to control 3rd Party applications using the MCP protocol

**SPEECH MODE**
Speech to text and text to Speech generation

IMAGEGEN

**DRAFT IMAGE**
Rapidly generate images using Stable Diffusion 1.5 up to 720x720 pixels
Dreamshaper 8 (SD1.5)

**HD IMAGE**
Generate high-quality images using SDXL up to 1024x1024 pixels
JuggernautXL (SDXL)

**PRO IMAGE**
High-quality image generation, with text and adherence to prompt
Flux.2 Klein

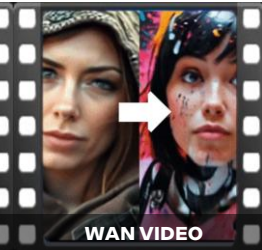
**PRO 2 IMAGE**
Generate extremely high-quality images using the Z-image-turbo model
Z-Image-Turbo

**CONTROL FACE**
Guide the likeness of a prompt generated character
JuggernautXL + InsWrapper

**MANUAL**
Control model, CFG, sampler and more.
User defined

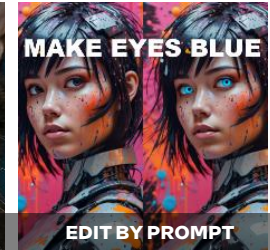
VIDEO

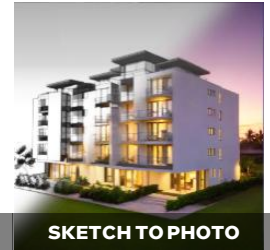
**LTX-VIDEO**
Generate video via text, images, or start/end frames, with or without audio

**WAN VIDEO**
Generate video from images or video

IMAGEEDIT

**UPSCALE**
Scale up to 4X to increase the resolution of that image
ESRGAN

**EDIT BY PROMPT**
Add, remove, or combine elements in photos by describing what to change
Flux.1-Kontext & Flux.2 Klein

**SKETCH TO PHOTO**
Turn rough sketches into stunning photos.
JuggernautXL + ControlNet

**CHANGE FACE**
Edit an image to have a likeness you control
InsWrapper

**INPAINT**
Regenerate portions of an image by masking then prompting
SD1.5 & SDXL inpaint

**OUTPAINT**
Extend an image beyond its borders using the prompt to describe the new content
SD1.5 & SDXL inpaint

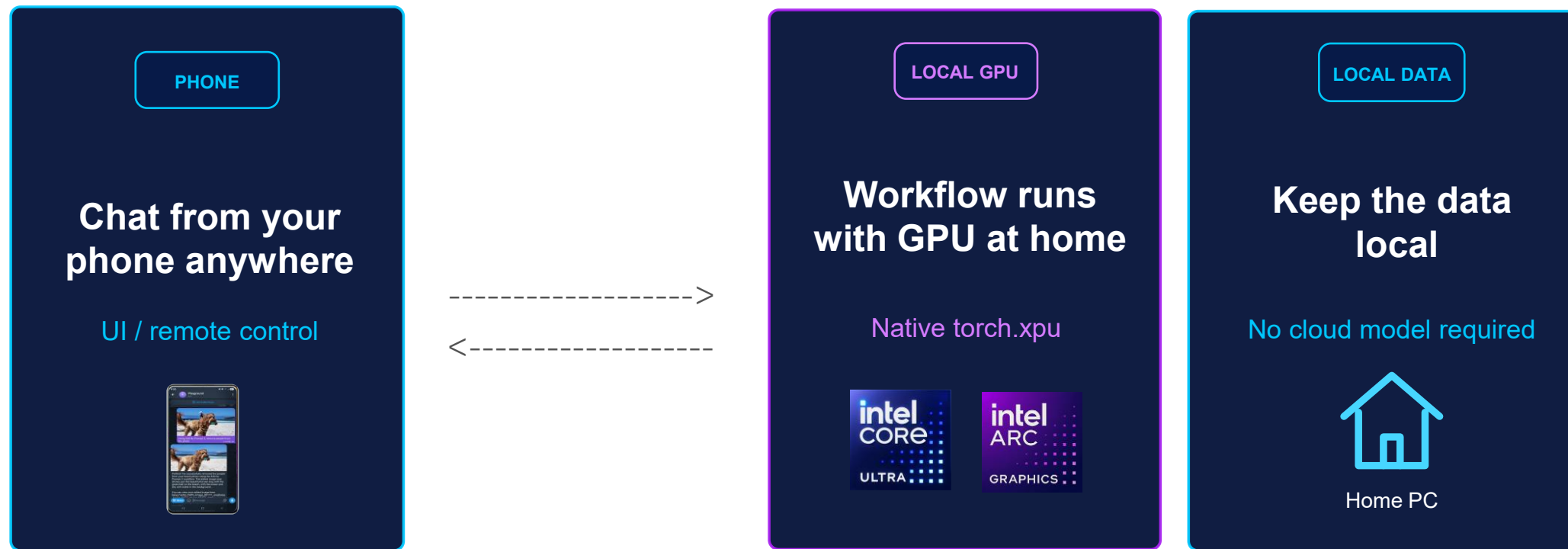
**IMAGE TO 3D MODEL**
Create 3D meshes from 2D images, ready for use in 3D tools like Blender
Hunyuan3D 2.0

**COLORIZE**
Add color to black and white photos
DDColor

Remote control for your local PyTorch stack

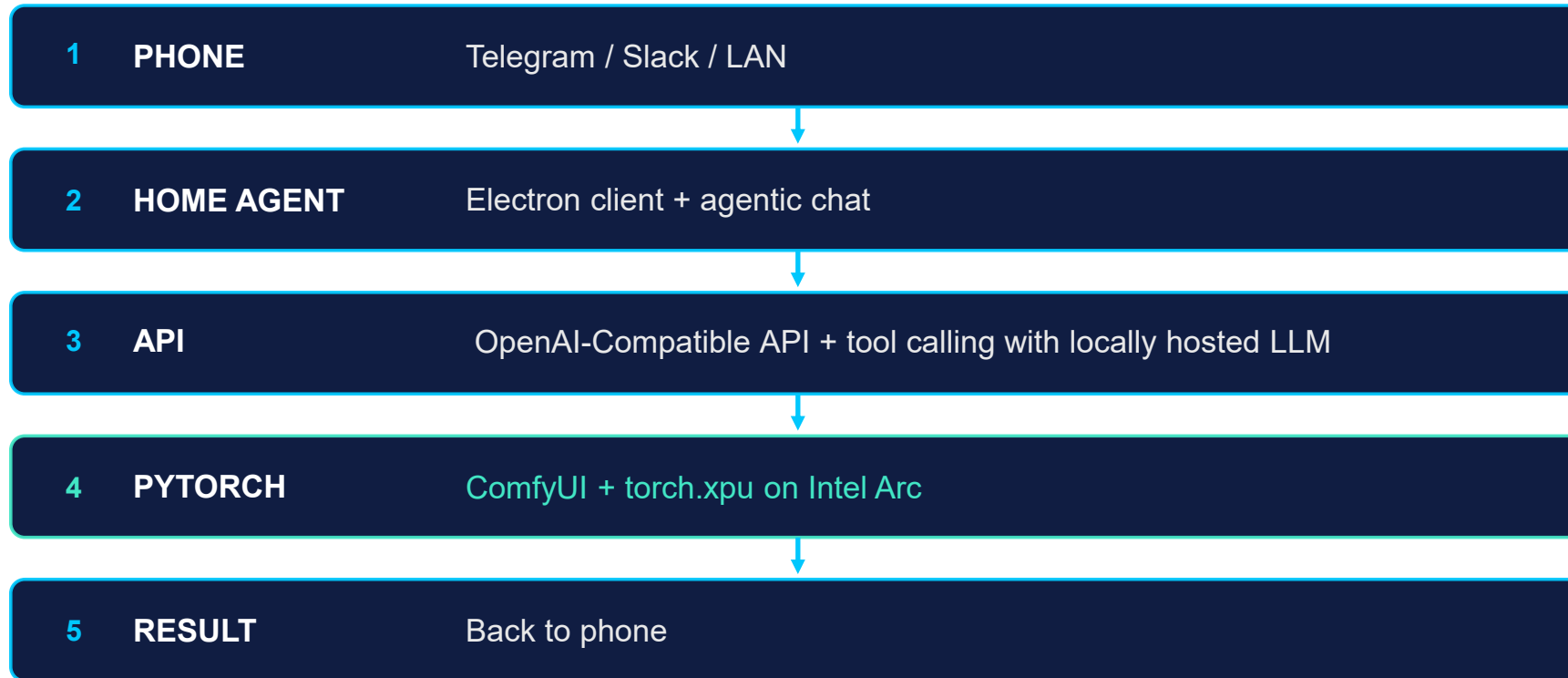


Compute you already own



The phone sends the prompt, Pytorch runs locally on your home PC

AI Playground Home Agent → local torch.xpu



PHONE = UI • PC = PyTorch on Intel GPU • Data stays local



Demo