

# Towards Ubiquitous Low-power Image Processing Platforms



Horizon 2020

## The Medical Use-case

- Used on X-ray video for surgery
- Embedded on the sensor
- Lowered radiation doses by factor 4
- Implements image denoise & enhancement
- Operates on 1024x1024 24-bit images
- < 20 W Thermal dissipation



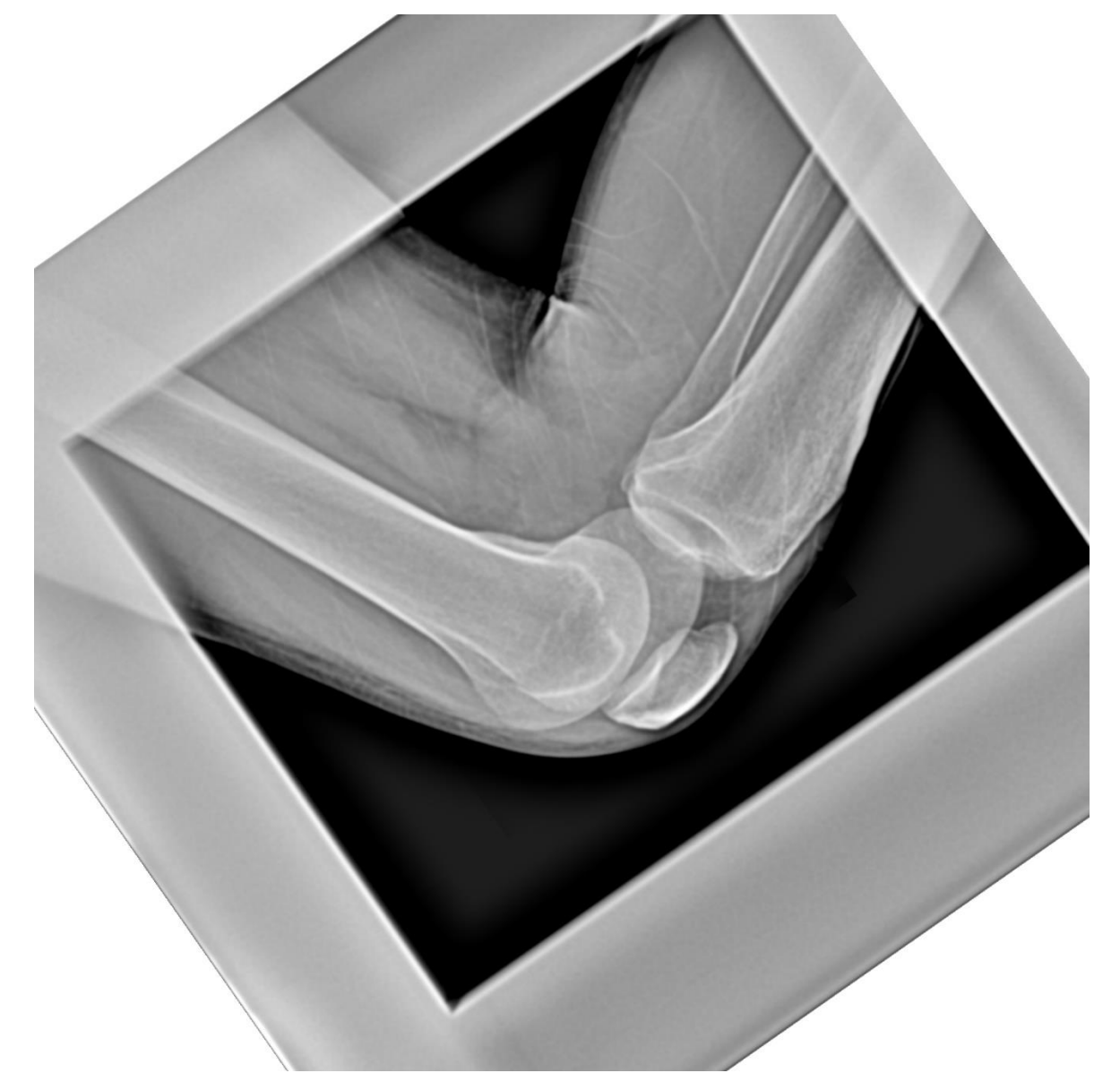
## The Application



Noisy input image



Denoised image + some enhancement



Enhanced image + rotation

## The Implementation



Reference running on GPU platform, ~150 W, ms/frame

Tulipp platform, ~10W

## Partners



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