



# Company Presentation

January 2025

# Sensing beyond what's visible.

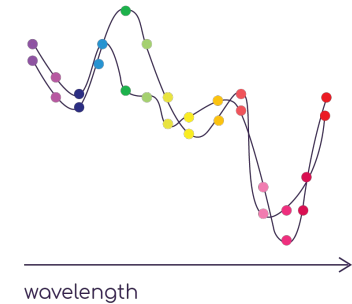
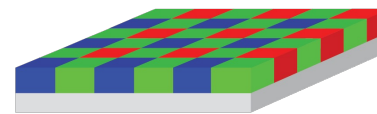
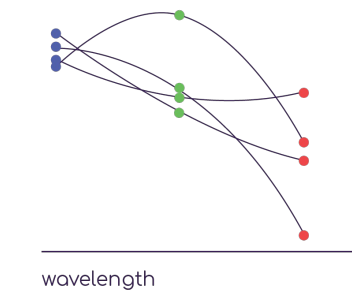
We capture the **spectral signature** of any object and scene to **reveal information** hidden from conventional cameras.



Standard RGB image sensor  
3 color images



Spectricity multispectral image sensor  
Many spectral images

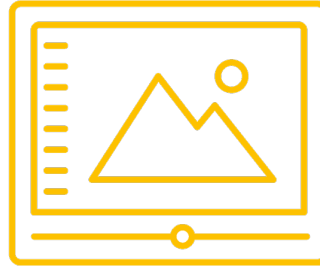


# Value of MSI



## Color measurements

By capturing the spectral signature of the object, we can determine the true color



## Color correction

The spectral data can resolve the illuminant spectrum and apply the color correction



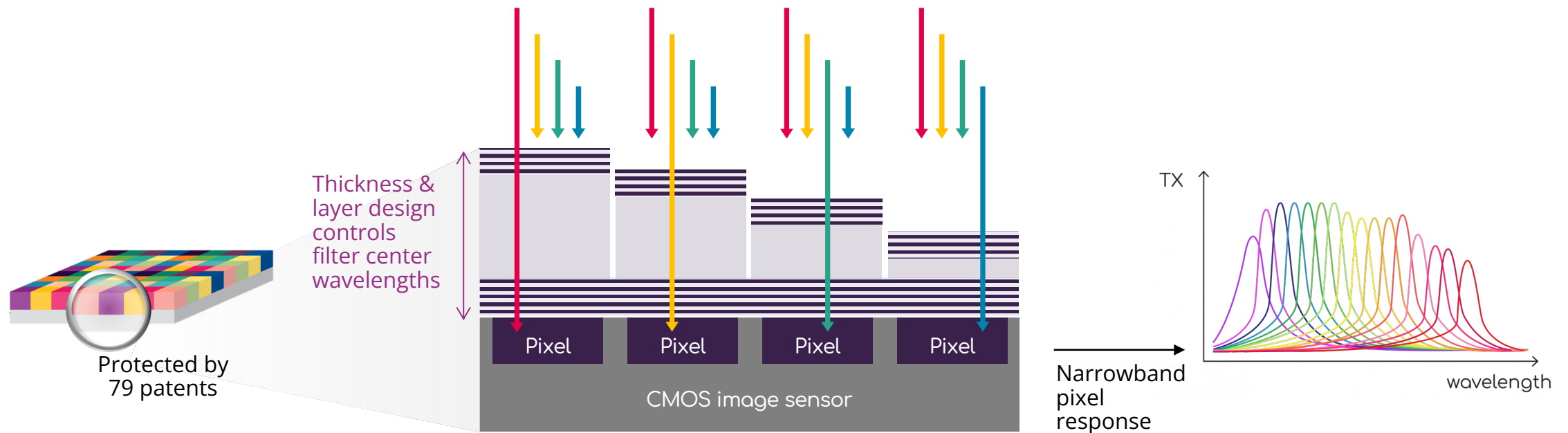
Spectral data reveals hidden information of materials

The spectral data from visible to infrared carries information about the material properties

# FP Precision Filter Technology

Spectricity's unique and patented spectral filter technology

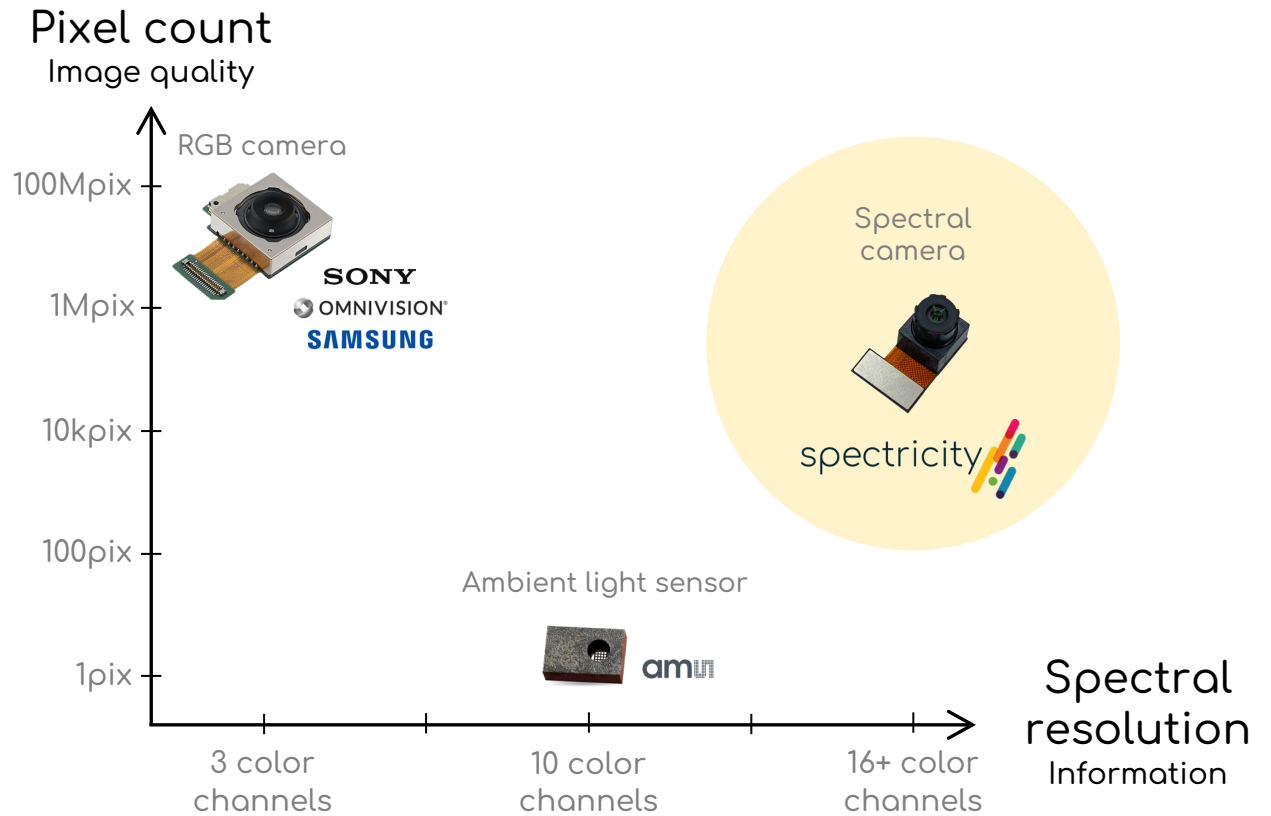
- Scalable and adaptable to any image sensor
- Brings multispectral imaging to tiny formfactors



# A New Class of Imaging Devices

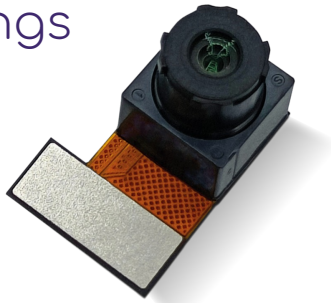
## Snapshot spectral imager

- **Precise spectral resolution**  
16 narrow-band responses from 400nm to 850nm
- **Full spectral imaging capabilities**  
864x648 pixels
- **High frame rate**  
30 fps
- **Tiny form factor**  
7mm x 7mm x 7mm module



# Multispectral imaging improves color accuracy 3x

Spectricity's spectral camera brings true colors to mobile devices.



Using the spectral signature of light to accurately resolve the white point



iPhone 15 Pro \*

Unstable colors  
→

spectricity 

True colors  
→

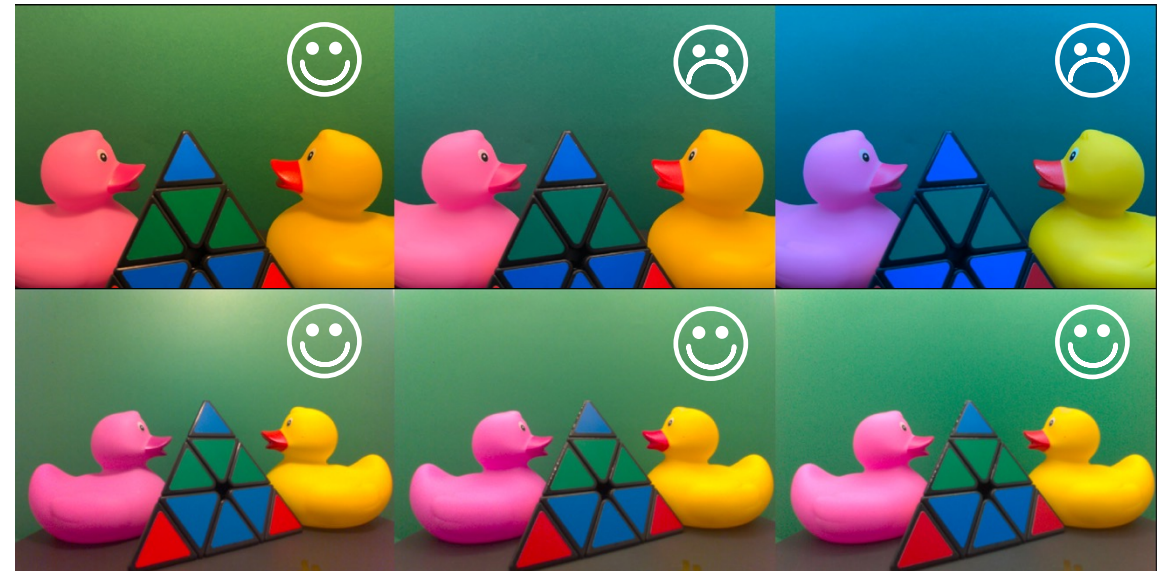
Warm white  
fluo



Warm white  
LED

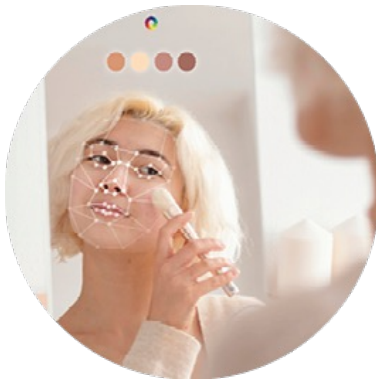


Cold white  
LED



\* similar results with all tested flagship phones

# Spectricity's Camera of the Future Enables New Applications



## Beauty & Health

- Accurate skin tone detection
- Skin health and hydration
- Personalized recommendation



## Food & Agriculture

- Crops growth and health monitoring
- Food freshness and quality inspection
- Species sorting



## Color Matching

- True color matching
- Spectral reconstruction of light
- Accurate color correction for AWB



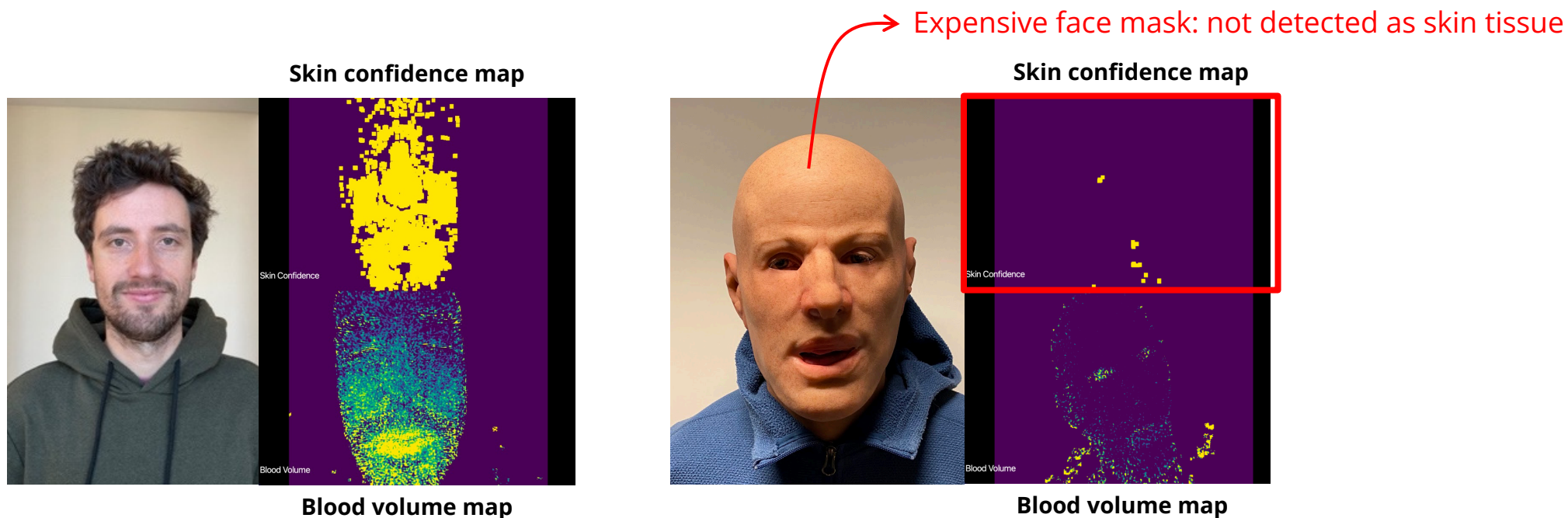
## Medical

- Accurate monitoring of wound healing
- Prevention of diabetic foot ulcers
- Skin cancer monitoring

*And many more...*

# True skin detection – face ID anti-spoofing

- Spectricity's technology extends beyond biomarker extraction to enhance security in facial recognition systems.
- By distinguishing real skin from synthetic materials, such as silicon masks, we significantly improve the reliability of face ID systems. This capability is achieved by integrating machine learning models with multispectral data, ensuring that only genuine skin is detected.
- This additional layer of security is a critical advancement in the fight against identity fraud.





# S1 Product Portfolio

S1

World's first truly miniaturized, mass-manufacturable mobile spectral image sensor

S1-M

S1 in a camera module format for easy device integration

S1-EVK2b

Evaluation kit for testing the MSI functionality and application development

S1-A

Mobile accessory device for in-field data acquisition and testing of applications

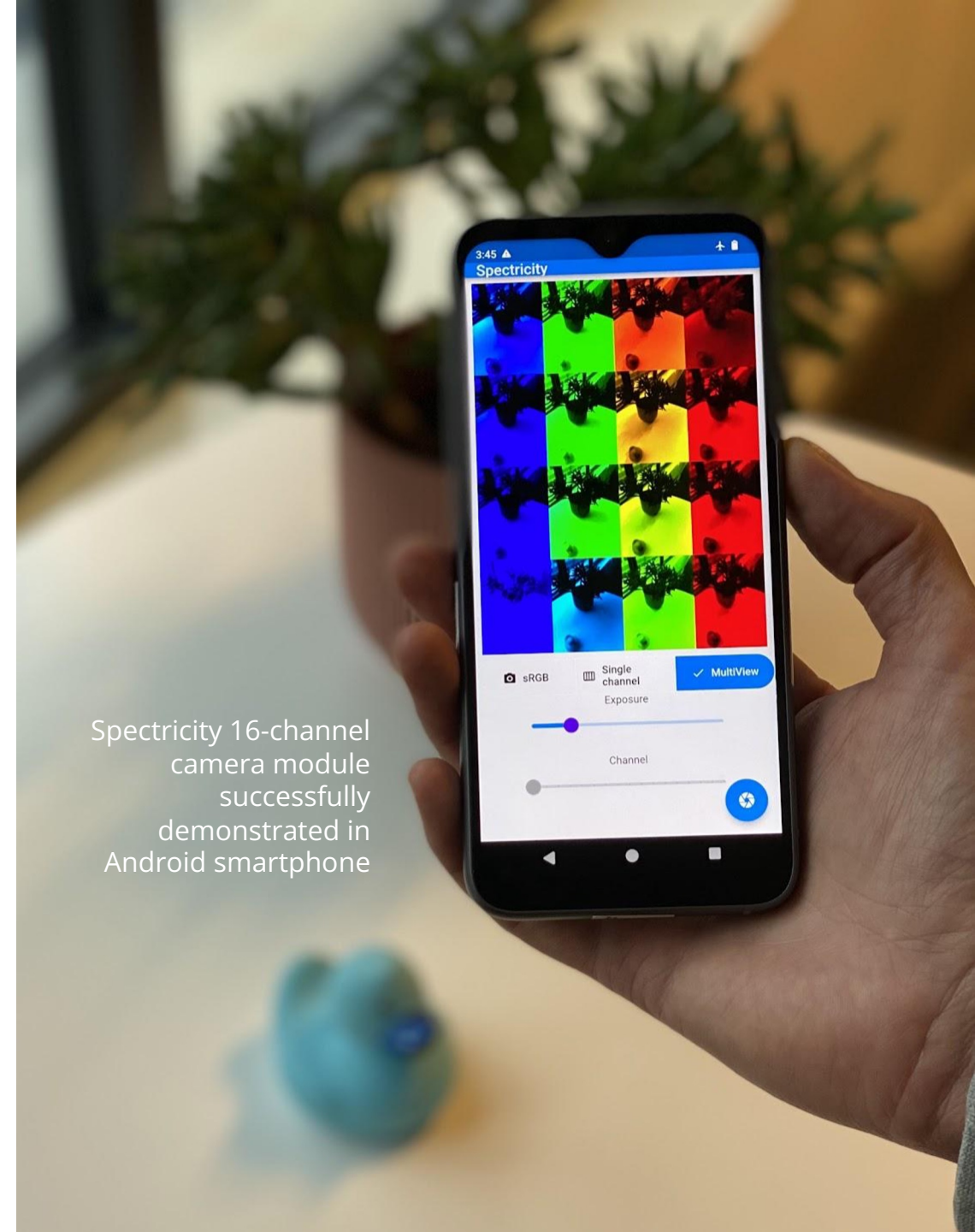


# S1 truly-miniature camera module integrates in smartphone

Operation demonstrated and reference design for Qualcomm Snapdragon to enable fast integration.

Qualcomm

Spectricity camera module



Spectricity 16-channel camera module successfully demonstrated in Android smartphone

# Patent Portfolio

Broad and comprehensive portfolio of

- 79 patents
- 21 families granted in US, EU, China

Value level coverage # cases

Filter technology

5

Sensor

24

System & optics

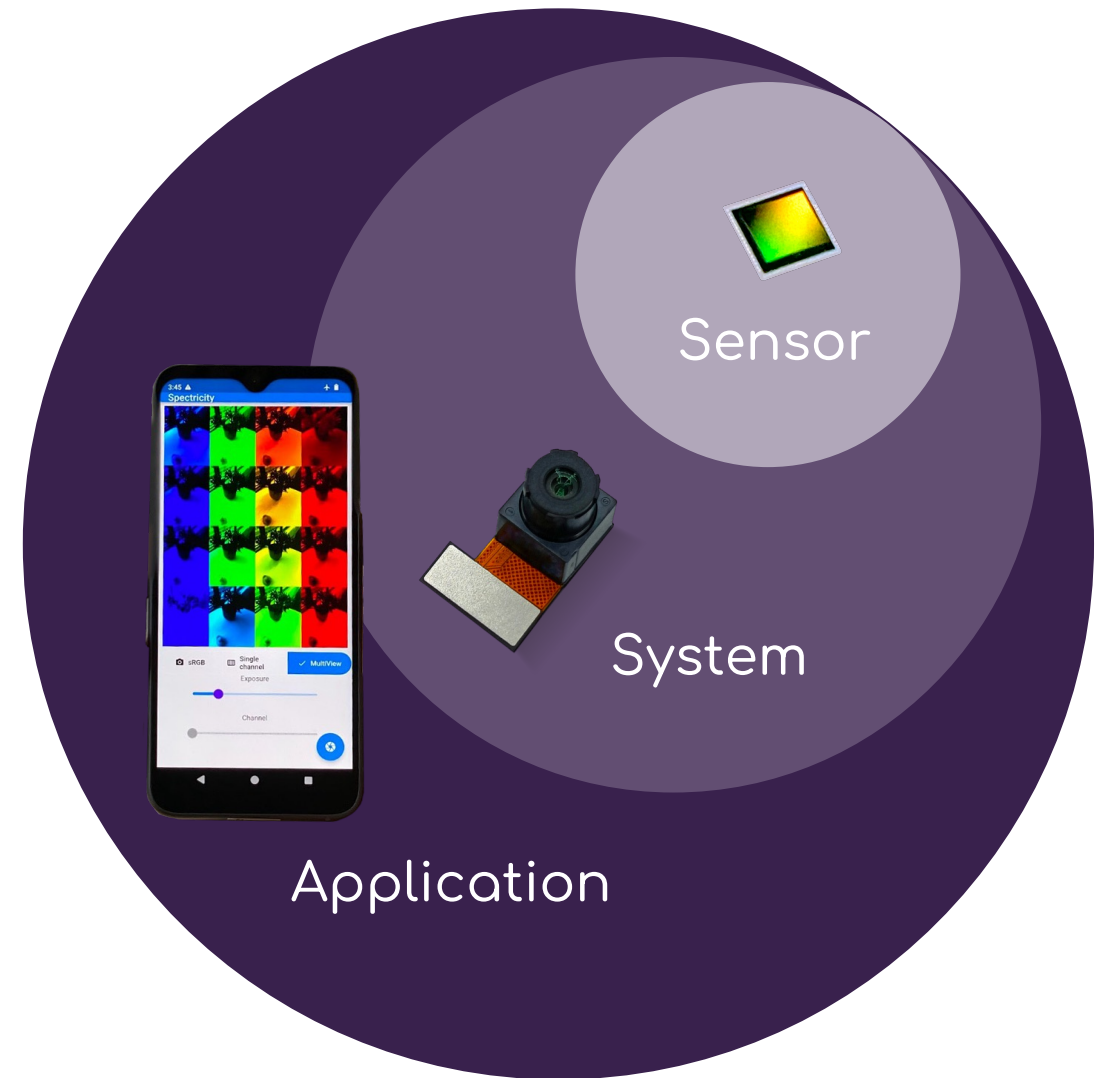
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Data processing

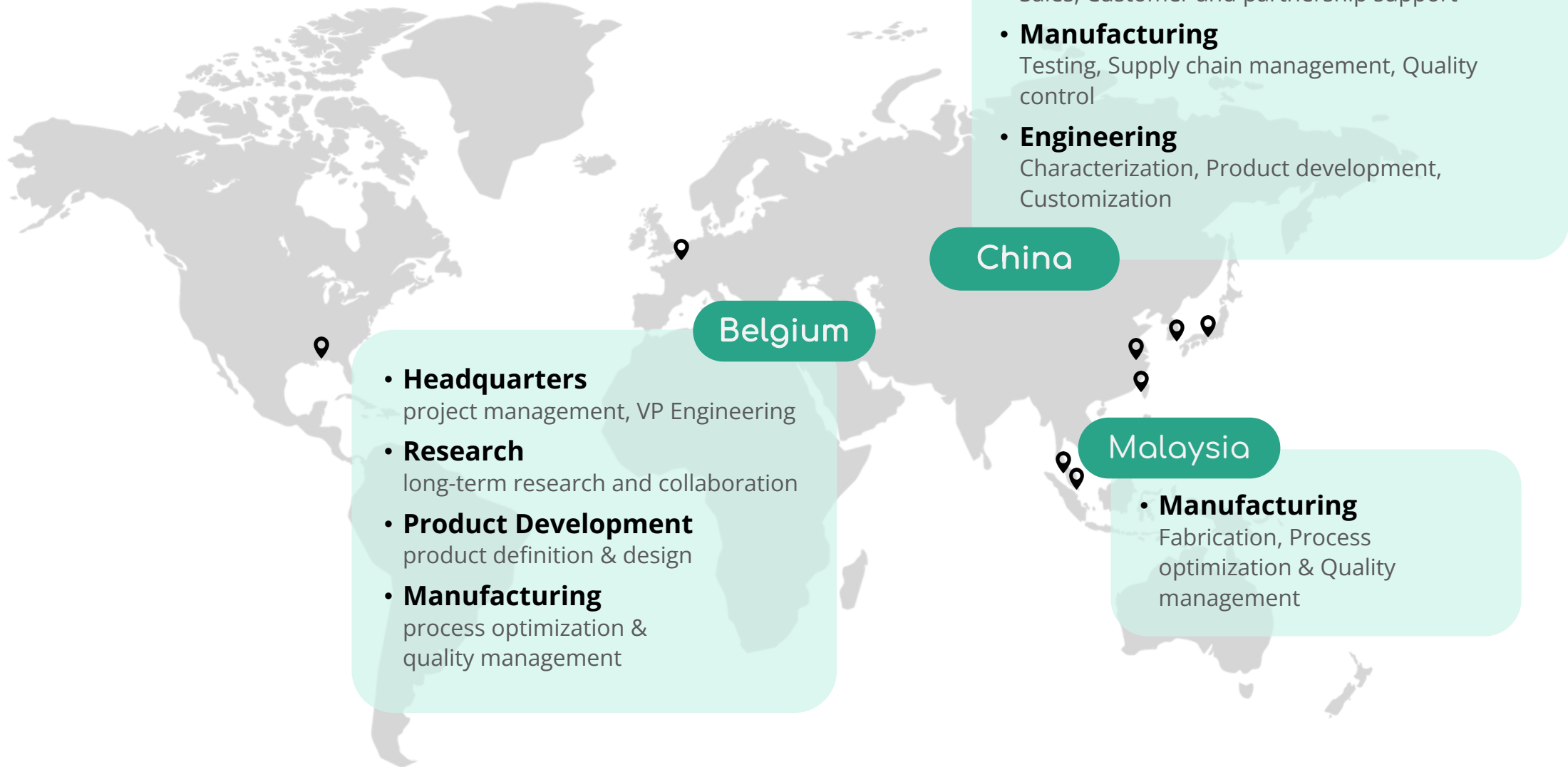
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Applications

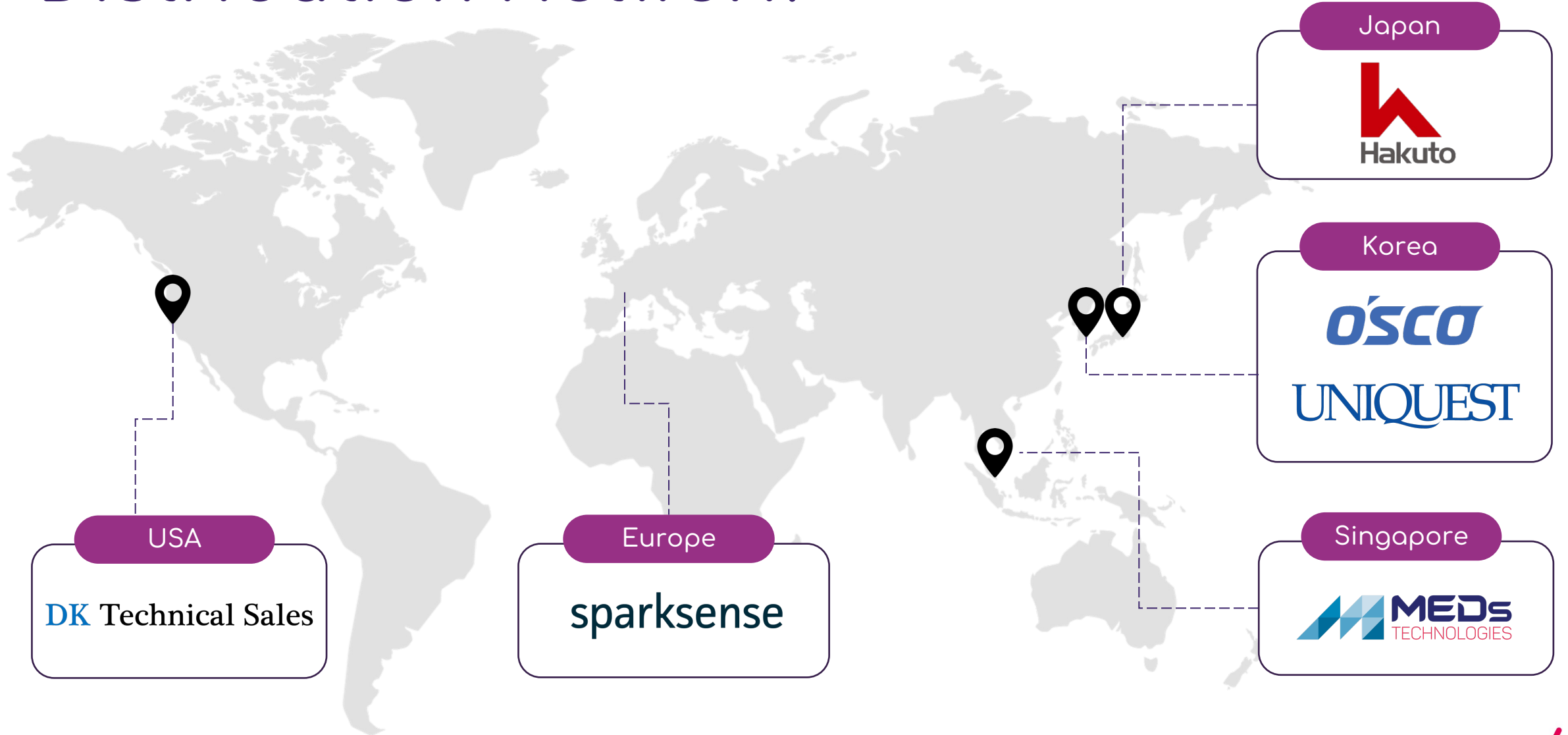
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# Global Locations



# Distribution Network



# Partners



spectricity 

