IOT PRODUCT PITCH

MEDICAL:PA

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IOT/AR CoE, ROTTERDAM

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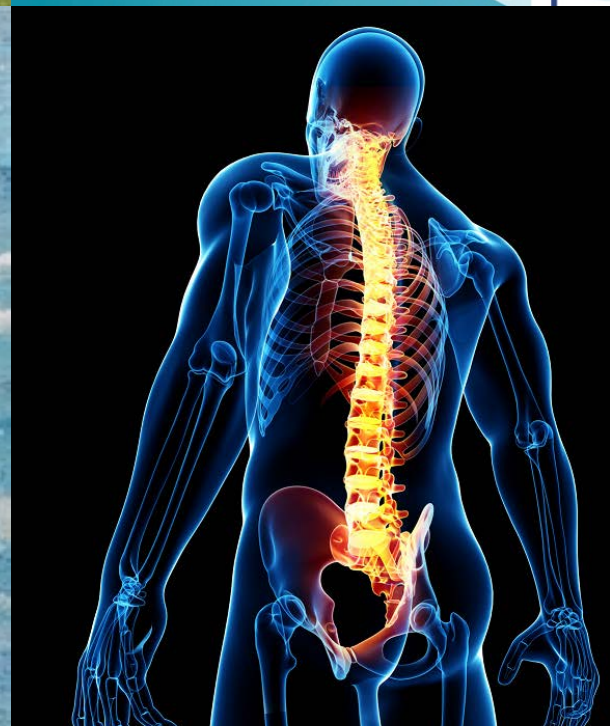
MODERN MEDICAL WORLD: A MARVEL, BUT FLAWED



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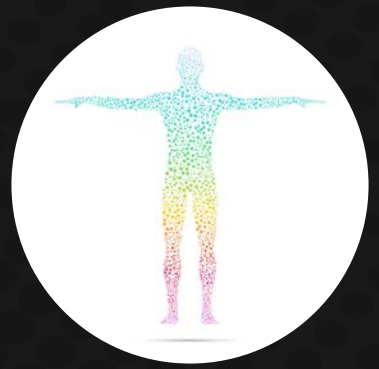
AN “INTERNET OF (PEOPLE) THINGS”
SMART, CONNECTED PRODUCT

MEDICAL:PA



LAYERS

SCP STACK

CAPABILITIES

LAYERS

LAYERS OF THIS SCP

SCP STACK

THE SCP STACK

PRODUCT

INFRASTRUCTURE

HARDWARE [Physical sensors, microprocessors]

SOFTWARE [Data storage / transmitting]

THE SCP STACK

SENSORS

GYROSCOPES [Orientation information]

PRESSURE [Exertion information]

PRODUCT INFRASTRUCTURE

HARDWARE [Physical sensors, microprocessors]

SOFTWARE [Data storage / transmitting]

THE SCP STACK

CONNECTIVITY

CLOUD NETWORK [Bluetooth, Wi-Fi, Internet]

SENSORS

GYROSCOPES [Orientation information]

PRESSURE [Exertion information]

PRODUCT INFRASTRUCTURE

HARDWARE [Physical sensors, microprocessors]

SOFTWARE [Data storage / transmitting]

THE SCP STACK

ANALYTICS

CONVERT DATA [Inform user]
PERFORMANCE DATA [Inform user & medical expert]

CONNECTIVITY

CLOUD NETWORK [Bluetooth, Wi-Fi, Internet]

SENSORS

GYROSCOPES [Orientation information]
PRESSURE [Exertion information]

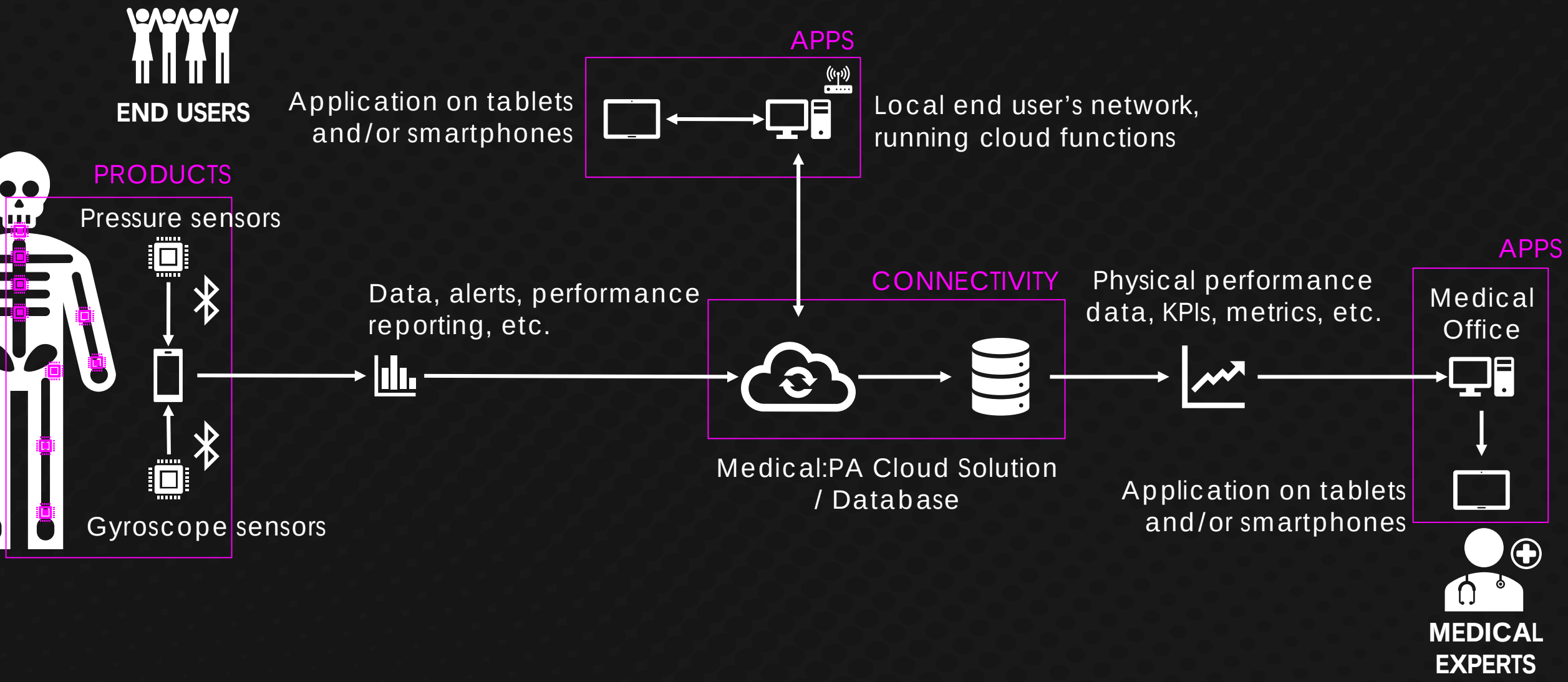
PRODUCT INFRASTRUCTURE

HARDWARE [Physical sensors, microprocessors]
SOFTWARE [Data storage / transmitting]

THE SCP STACK

SMART APPS		**HANDHELD DEVICES** [Direct to user & expert] **VISUAL INFORMATION DISPLAY** [Highlight critical areas]
ANALYTICS		**CONVERT DATA** [Inform user] **PERFORMANCE DATA** [Inform user & medical expert]
CONNECTIVITY		**CLOUD NETWORK** [Bluetooth, Wi-Fi, Internet]
SENSORS		**GYROSCOPES** [Orientation information] **PRESSURE** [Exertion information]
PRODUCT INFRASTRUCTURE		**HARDWARE** [Physical sensors, microprocessors] **SOFTWARE** [Data storage / transmitting]

THE SCP STACK: IOT NETWORK



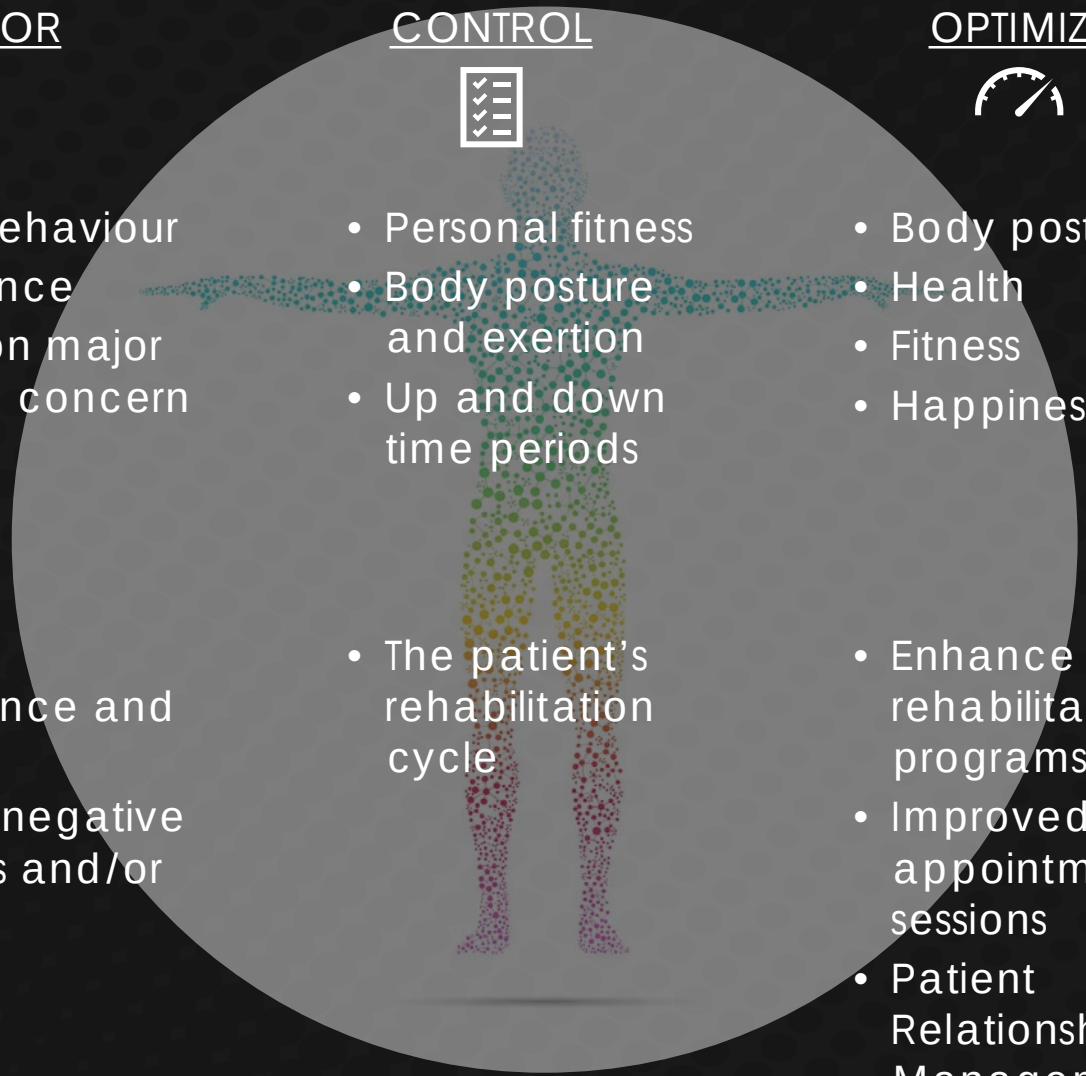
THE SCP STACK

SMART APPS		**HAND HELD DEVICES** [Direct to user & expert] **VISUAL INFORMATION DISPLAY** [Highlight critical areas]
ANALYTICS		**CONVERT DATA** [Inform user] **PERFORMANCE DATA** [Inform user & medical expert]
CONNECTIVITY		**CLOUD NETWORK** [Bluetooth, Wi-Fi, Internet]
SENSORS		**GYROSCOPES** [Orientation information] **PRESSURE** [Exertion information]
PRODUCT INFRASTRUCTURE		**HARDWARE** [Physical sensors, microprocessors] **SOFTWARE** [Data storage / transmitting]

CAPABILITIES

CAPABILITIES OF THIS SCP

	MONITOR	CONTROL	OPTIMIZE	AUTOMATE
END USERS	• Human behaviour • Performance • Exertion on major joints and concern areas	• Personal fitness • Body posture and exertion • Up and down time periods	• Body posture • Health • Fitness • Happiness	• Data feedback • Patterns of behaviour
MEDICAL EXPERTS	• Patient performance and progress • Positive / negative behaviors and/or patterns	• The patient's rehabilitation cycle	• Enhance / adjust rehabilitation programs • Improved appointments & sessions • Patient Relationship Management	• Live data available prior to next appointment



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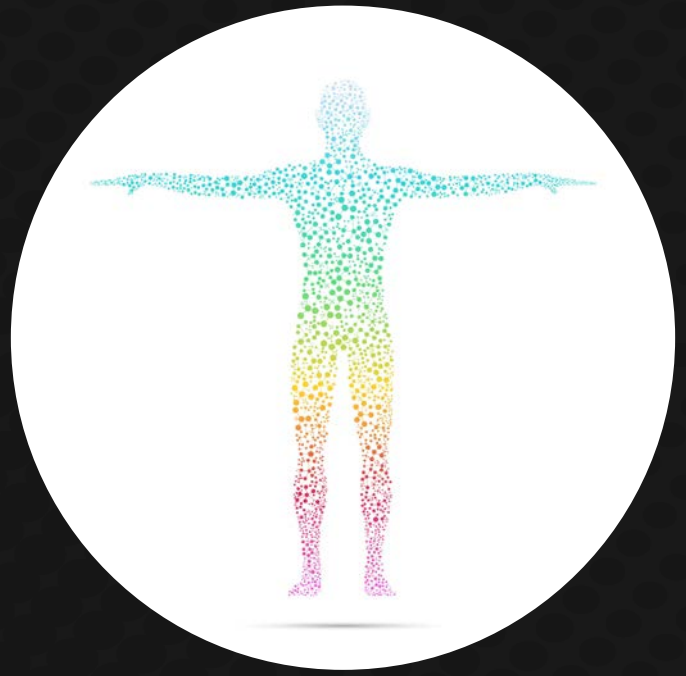
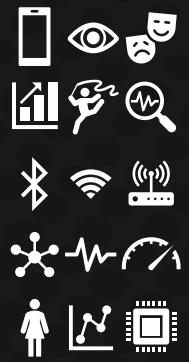


RECAP – MEDICAL:PA

LAYERS!

- Products! The Cloud! Smart Applications!

SCP STACK!



- Clear structure in the SCP stack from Human Body to smart applications!

CAPABILITIES!

- Better monitoring, more control, enhanced optimization with greater automation = BETTER BODY!

MEDICAL:PA

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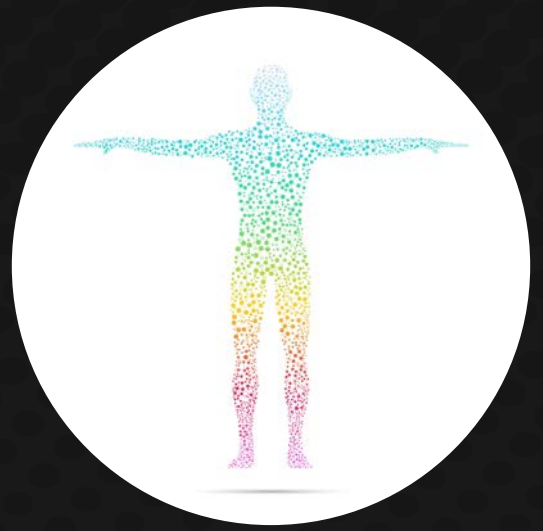
IOT SCP !



The next wave in medical posture assistance!

Andy Barker, IOT/AR Project Manager, PTC

FunManAndy | TheFunManAndy

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