Movea

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Movea overview

Leader in data fusion firmware, middleware and software

60 people Grenoble (FR), San Francisco (US), Seoul (KR)

Three Market Segments

- Movea MobileMovea TV

 - Movea Fit

Strong market traction and position

- Engaged with market leaders today and increasing momentum
 Clear market differentiation in power, accuracy, flexibility, integration and context-aware features

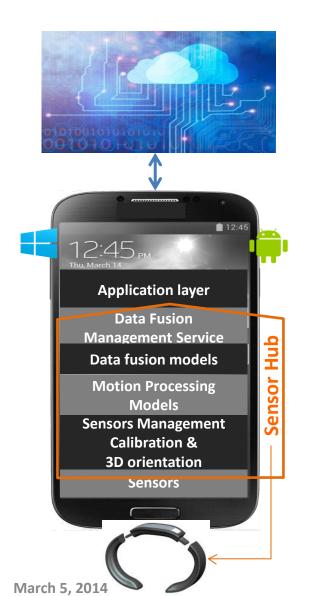
One of the industry's broadest patent portfolios

100+ patent family
550+ publications



What Movea does

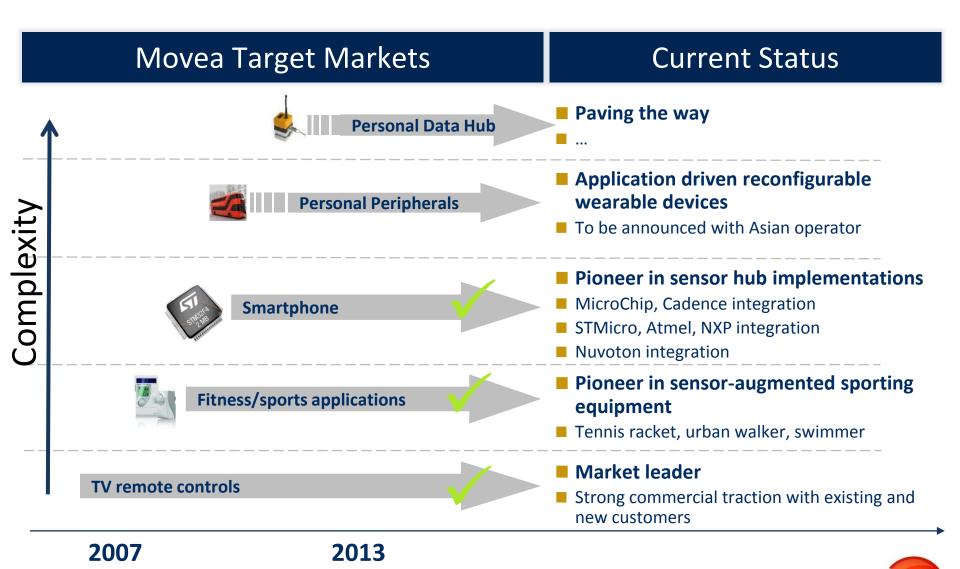
We turn sensor signals to meaningful personal information



- Decode and analyze sensor signals with ultra-low power, on-device sensor and data hub technology
- Compare results to usage patterns of thousands of people
- Derive personal information: user location, activity, etc., at highest accuracy
- Service APIs to application layer



An industry trailblazer



Sub 3mW sensor hub already in production with a roadmap to sub 1mW

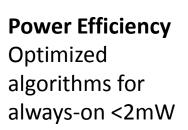
move of motion is life

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Uniquely able to deliver true context-aware capabilities in connected devices

Movea addresses the challenges of Context Awareness:







Accuracy over 95%



Sensor
Agnosticism
support
leading
sensors
providers



Any HLOSAny MobileDistributedArchitectures

Flexibility

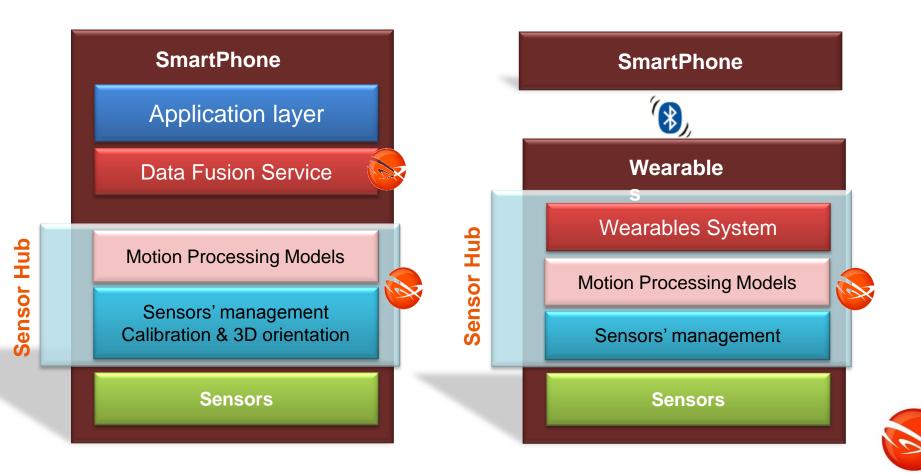


Ease of
Integration
plug&play
library for fast
time-tomarket



Movea's Sensor Hub

- Movea's Sensor Hub initiative becomes a must-have for Always-On and advanced motion activities
- Motion <u>high accuracy</u> at <u>ultra-low power</u> are the major care-abouts for SmartPhones and Wearables.



Sensor Hub for Mobile



Movea Sensor Hub milestones

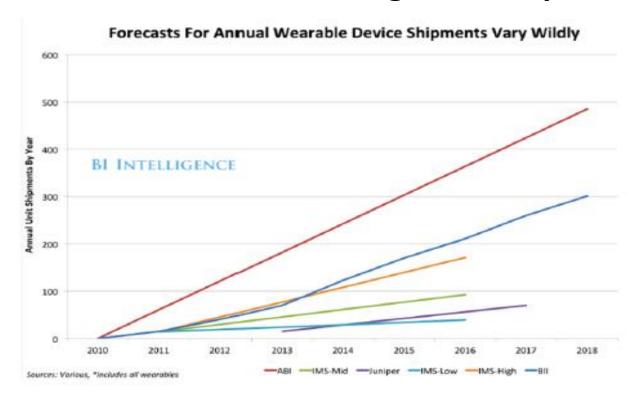
- Movea Sensor Hub Evaluation Kit available now
 - Movea SW and Firmware
 - STMicroelectonics HW: STM32F401 Cortex M4, with 137uA/MHz
 - Android 4.4 compliant
- Android HLOS: Movea partners today with ST, Atmel, and Cadence; delivers demonstrators on request for Android HLOS
- Win HLOS: Movea partners with Nuvoton and Microchip and delivers demonstrators on request for Win HLOS



Sensor Hub for Wearables



Wearables market growth expected to be big



Wearables volume forecast

- Growth from 14 Mu in 2011 to 485 Mu by 2018 (ABI Research).
- Growth from 14 Mu in 2011 to 100 Mu by 2014 to 300Mu by 2018 (IMS Research)

Bracelets: According to IMS Research, Fitness and Medical Wearables, taken together, will account for roughly 60% of the Wearables market in 2014, and even a larger share in the future compared to smart-watches and eye-wear

Movea plays key role in wearable advancement



Movea brings

- Unparalleled features and accuracy
- Scalability (over the air feature upgrades)
- True data fusion between Wearables, Smartphones and Cloud
- Power efficiency (>10 days battery life)



Movea Wearables/Multi-sport offering today

Partner support

- On demand compiled library
- Integration support
- Documentation
- Benchmark reports



Evaluation kit

- Design to test/benchmark the system performance
- Benchmark support

Reference design kit

- Electronic board for bracelet
- Wearable/MultiSport library & firmware
- Android API to abstract BLE communication
- Android Sample Application
- Bracelet & manufacturing services through partnerships





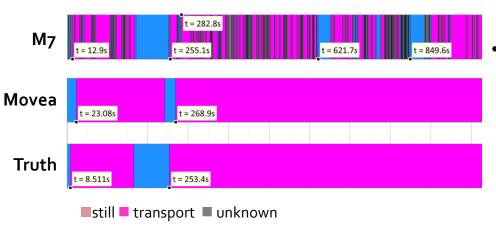
Highest accuracy solution available

Activity Monitoring Benchmark

Nominal Case	Step Error Rate (The Lower, The Better) Better)		
Scenario	Comp1	Comp2	Movea
Walking Free Hand	1.8%	6.3%	0.5%
Walking Fixed Hand	3.2%	2.2%	o.8%
Running Distance	-	-	-
Running Step	25.1%	10.4%	4.0%
Stairs Down	8.1%	-	2.3%
Stairs Up	7.1%	-	2.9%
Weighted Average	7.5%	6.3%	1.7%

Movea vs. iPhone 5s (M7)

Transportation Benchmark



*Test data from Movea 2013

*T = Time

- Movea's sensor hub solution has achieved record-breaking accuracy levels:
 - Activity Classification 95%+ accuracy on activity monitoring recognition (still, walking, running, in-transportation)
 - Step Count –lowest error score compared to other commercial solutions
 - Sleep Analysis solution closely mirrors results from high-precision polysomnogram sleep study tests employed by hospitals
- When compared to Apple's M7 motion processor, Movea's state output data is far more accurate
 - Movea's indoor pedestrian navigation processing is best-in-class
 - Distance estimation within 5%
 - Orientation tracking of +/- 2 degrees
 - Floor change detection accuracy of 99.7%



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Movea delivers best what matters most

Low Power

Game changers:

- Pedometer 80uW
- Navigation < 2.0mW

Engaging on < 1mW total

Low Footprint

Complete Sensor Fusion solution

- 120KB Flash
- 60KB SRAM

High Accuracy

Much-favorable benchmark for Movea versus major competitors (report Included)

Scalable SW

Sensors agnostic and Sensor Hub homes agnostic Solution in production on Cortex MX's, DSP, MPU

Context Aware

Broadest and most advanced feature set available Support set of CA models Extension to include always-listening and Always-seeing

Strong IP Portfolio

Top 5 IP Patent Pool WW



Thank you

www.movea.com

