Movea: Motion Sensing Everywhere

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Company Profile

- Created in 2007 in Grenoble, France
 - Spin-off of CEA-Léti
- Motion Sensing pioneer and market leader with over 5 million units shipped
- 20 years of motion sensing & consumer electronics industry experience
- Focus on IP & technology
 - Over 250 man-years invested in R&D
 - 400 patents / 75 families
 - Joint MotionLab with CEA-Léti
- 50 employees today and growing
- Global leader in motion-sensing
 technology IP, technology and solutions:
 - Mobile/Tablet
 - Interactive TV
 - Sports & eHealth





MoveTV Customer Successes

- Free: World's leading IPTV service provider
- SMK-Link/Gyration: Leading supplier of innovative Computer Peripherals
- Remote solution: Remote control supplier for C&M (2nd largest cable operator, Korea)
- #1 European Service Provider: Remote/STB integrated solution – release Q3 '12 (partner w/SMK & Sagemcom)
- French Service provider: Remote/STB integrated solution – release Q3 '12 (partner w/Pace & Ruwido)
- European Tablet MFG: accessory remote release Q3 '12
- Sunrex: Air Motion Keyboard ODM Remote (blackberry style keyboard w/SmartMotion)
- **Dell**: ODM Remote control
- UEI: Wavemotion ODM remote
- 4MOD: Moos ODM remote
- SMK Europe: RemoPad ODM remote
- Texas Instruments: RemoTI RF4CE & BLE reference kit design remote
- Nordic: nRFready 2.4GHz RF & BLE Smart Remote
- Greenpeak: GP570 RF4CE remote control
- SMK US: Jade reference remote

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Health, Sports & Other Customers

- Decathlon: world's top 3 sporting goods retailer
 - Nabaji Swimmer Iap counting/MP3
 - Nabaji v2 next gen Swimmer release w/ stroke detection (release Q3 '12)
 - Newfeel Fitness/calorie monitor (release Q2 '12)
- Top 3 Tennis OEM: "Play & Connect" tennis racquet connected w/ mobile device (release May '12)
- Hocoma: Valedo Range of Motion analysis & game driven rehabilitation solutions
- RMI: Bioval Body movement analysis and physical therapy solutions
- Other projects under development including major mobile platform vendor
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Movea: A Data Fusion Company



Aware: Understand my context and bring me the right information

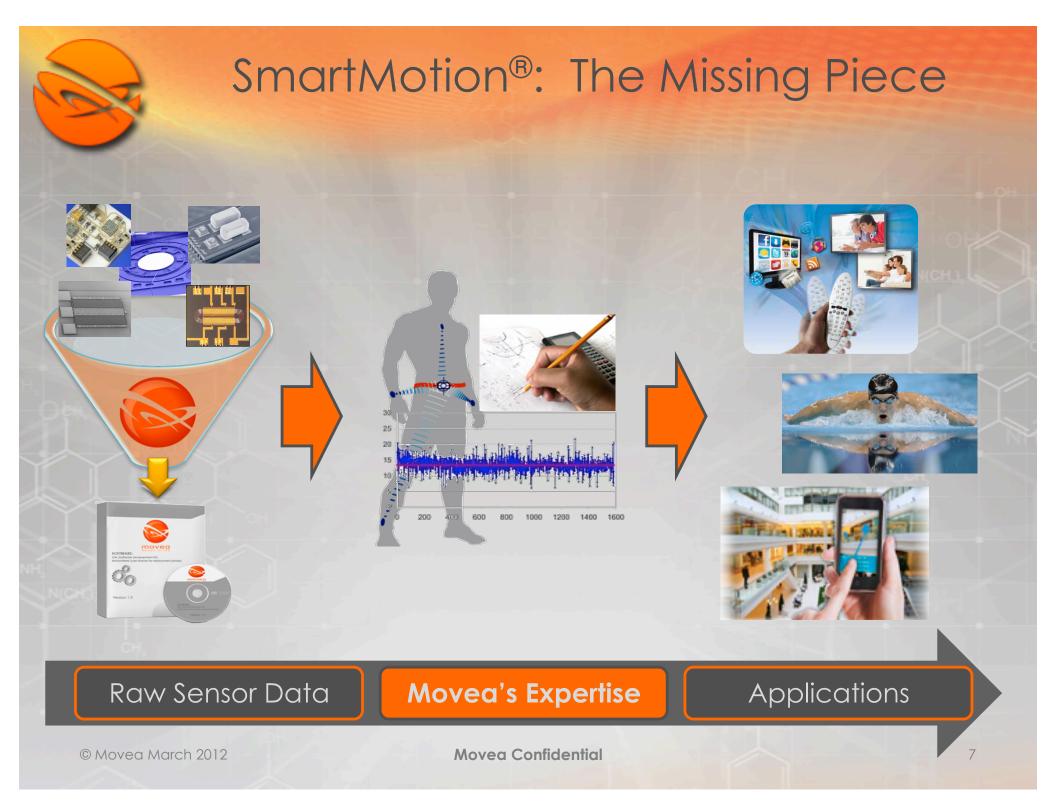


Pervasive: Around me, on me, embedded in me. Wherever I am.



- **Seamless**: Easy to use, integrated, invisible UIs
- Safe: Myself, my systems and my data are secure

Agnostic Across the Board... CM/ODM Sensors OS ubuntu® BOSCH EPSON TOYOCOM ANALOG DEVICES (H)UNIVERSA _ectron utting You in Control of Technology InvenSense. Kīonix* AKM ruwido Windows 7 CIOECUD TECHNOLOGIES OHSUNG Honeywell OHSUNG ELECTRONICS CO., LTD. 캳 freescale Mac OS X SUREX Microprocessors Windows FORWARD Linux NORDIC Green EMICONDUCTOR SMK Pe Atom[®]inside[®] ERICSSON Wireless ARM 🌵 Texas **DVIDIA** Wi F **R**@mote Solution radio INSTRUMENTS TEGRA pulse © Movea May 30, 2012 Movea Confidential



Movea's SmartMotion Technologies

Motion solutions that advance the entire value chain

Application Developers & Service Providers

Sensor & Silicon Vendors **Tools & Applications:** Gesture Builder, MoveTV, SmartMotion Server, MoveaLab

Embedded Solutions: firmware, API's, algorithms, libraries

MotionCore[™]: optimized IP Cores for motion processing CE Device Manufacturers & System Integrators

The Chemistry of SmartMotion

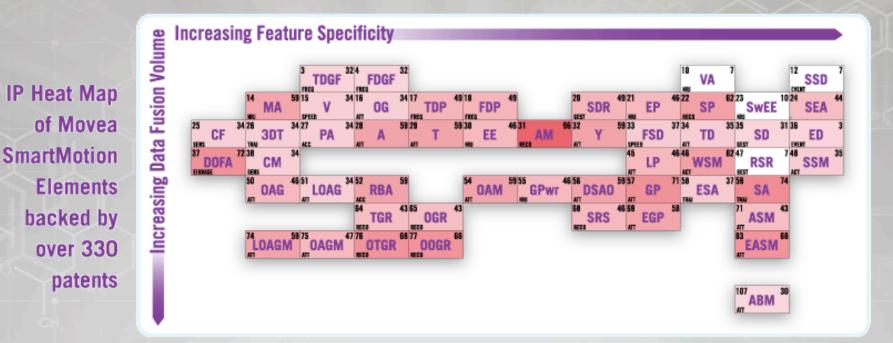
- In developing our SmartMotion Technologies, Movea has identified the fundamental elements of human motion
- Through our Chemistry of Motion, we can rapidly prototype
 new features by combining atoms into molecules

AM	2															А	13	х	13	AG	10
1D Angles													Sweet Spot		3D Speed		Optimized 3D Acceleration				
Angles	Any															Detection	Hand	Speed	Any	Trajectory	Any
G AG	5	A G	10													AM	25	AM	10	AGM	15
2D Pointing		3D MMI Online													Elevator Detection		Planar Speed & Distance		Enhanced 3D Acceleration		
Angles	Any	Recognition Ha	and													Detection	Any	Speed	Foot	Trajectory	Any
AM	3	G	1	А	6	А	13									М	5	AGM	15	AG	18
Tilt Compensated Compass		2D MMI Triggered Walk Style			Energy Expend	iture									Lap Counting	g	Handhe Object Velocity		Pedestri Navigati w/ Map	an on	
Angles	Any	Recognition A	ny	SpecReco	Torso	Energy	Torso									Detection	Head	Speed	Equip	Trajectory	Foot
AM	5	А	3	А	5	A G M	15	AMIAGM	50							м	3	AGM	17	AM	13
3D Angles		Steps BW/FW L/R/Diag	teps W/FW Posture R/Diag			Rough Amount Motion	t of	Basic Avatar	Basic Avatar						U-Turn Chronodating		Impacted Object Velocity		Basic Pedestrian Navigation		
Angles	Any	Recognition F	oot	SpecReco	Torso	Energy	Any	MoCap	Any							Detection	Head	Speed	Equip	Trajectory	Torso
AG	13	A G	31	AGM	15	Х	18	AMIAGM	55	A G M	7	AG AGM	16			AM	5	А	8	Х	12
3D Angles		Supervised On-Demand		Tennis Stroke & Spin		Power		Full Avatar		Basic Frequency		True Acceleration				Stroke Count		Speed & Distance		3D Trajectory	
Angles	Any	Recognition A	۸ny	SpecReco	Hand	Energy	Head	MoCap	Any	Frequency	Any	Acceleration	Any			Detection	Head	Speed	Foot	Trajectory	Any
AGM	25	A G	35	А	2	A	9	AMIAGM	60	A G M	9	AM	10	AIGIM	10	м	60	м	4	AM	9
3D Angles		Advanced Supervised On-Demand		Swim Stroke		Activity Matching		Networked Avatar		Advanced Frequency		Relative True Acceleration		Repetitive Motion Force		Basic U-Turn		Phased Foot Angle		3D Foot	
Angles	Any	Recognition A	ny	SpecReco	Head	Energy	Torso	MoCap	Any	Frequency	Any	Acceleration	Any	Intensity A	١ny	Detection	Head	Speed	Foot	Trajectory	Foot
AGMIAG	3 25	A G	15	A G	15	AIM	15	AMIAGM	65	A G M	15	AM	12	AIGIM	12	A	65	м	11	AGM	17
3D Angles		Online Continuous		Activity		Energy Expenditure Swimming		Bio- Mechanical Avatar		Cadence		True Foot Acceleration		Frequency Force		Stillness / Shock		Stride Phases		3D Hand	
Angles	Any	Recognition A	ny	SpecReco	Any	Energy	Head	MoCap	Any	Fquency	Any	Acceleration	Foot	Intensity A	ny	Detection	Any	Speed	Foot	Trajectory	Hand

Movea Table of SmartMotion Elements

Movea Chemistry of Motion and IP

 SmartMotion "atoms" backed by more that 330 Movea patents.



We Build Motion Features

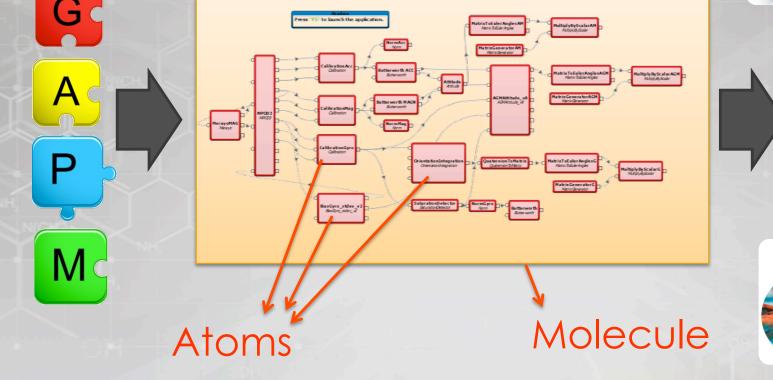
MoveaLab: chemistry kit for designing the signal processing flows from sensor data to features

Interactive TV



Mobile

Sports & eHealth



Where can we go?

- 1. "Motion is Life" therefore Motion is a good starting point for Data Fusion,
- Beyond Motion: from the same node, let's 2. fuse other sensors or information
- Data fusion beyond the device 3. Above the Device: let's grab some other data from outside the Device

Motion & sensor fusion within the device

Beyond motion within the device