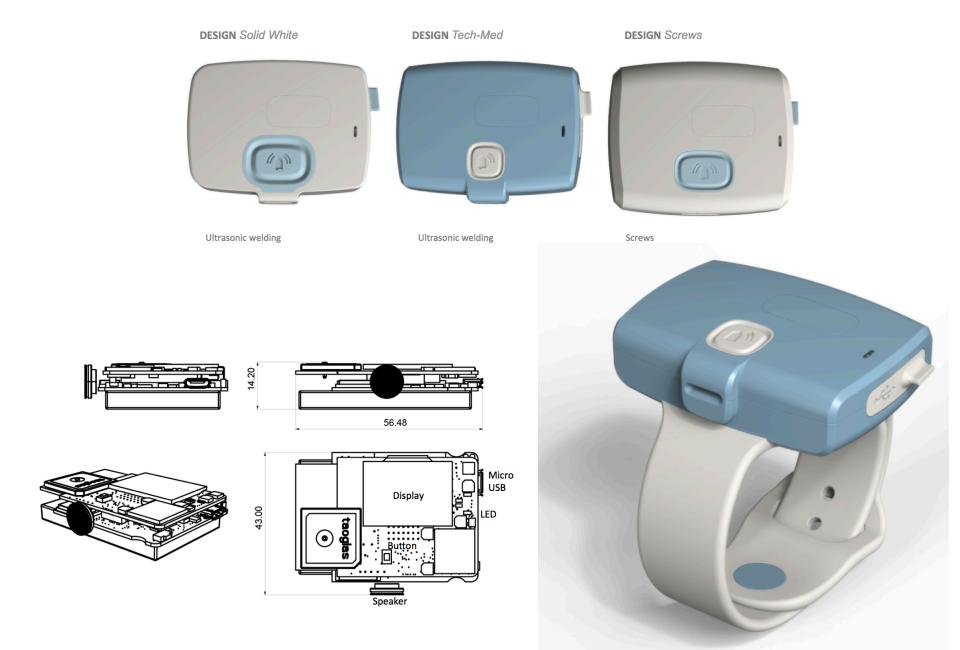
CSP TELEMEDICINE REMOTE MONITORING MEDICAL DEVICES

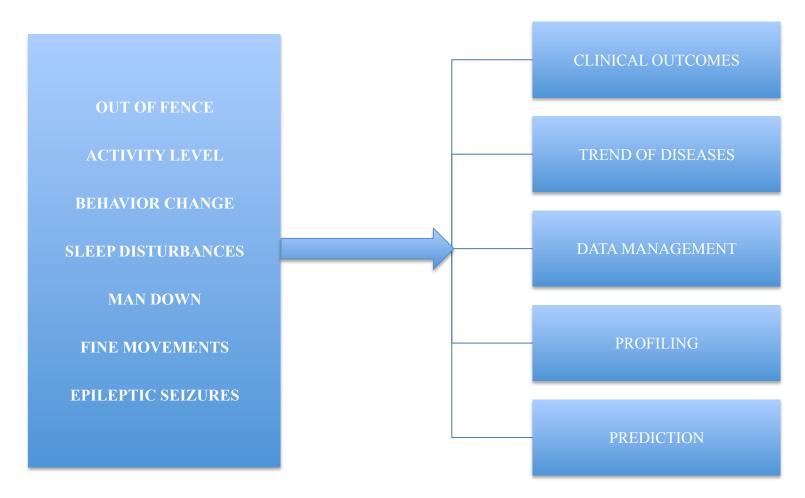


CSP - TI, JULY 5th 2016





AUTOLEARNING WEAREABLE SHOCK-WATERPROOF PATENT PENDING MEDICAL DEVICES





INTENDED USE	SUFFERING PEOPLE	COSTS / Y	
DEMENTIA Data on Alzheimer's, that is the 70-80% of all the Dementia.	ITA 1.241.000 (260.000 NEW PATIENTS/Y) U.S.A 9.400.000 Europe 10.500.000 WORLDWIDE 140.000.000 EXTIMATED IN 2050	37 BILL \$ 226 BILL \$ ITALY: AVERAGE DIRECT/INDIRECT COST/PATIENT/Y > 70 K WITH 60% IN CHARGE ON FAMILY – AIMA - CENSIS 2015 WORLWIDE 818 BILL \$, 1 TRILLION \$ IN 2018	
MIDDLE COGNITIVE IMPAIRMENT	MANY MILLIONS OF PATIENTS DEVELOPING DEMENTIA IN NEXT YEARS	N.A. TO BE CLINICALLY TESTED WITH BESTA / HORIZON 2020	
PARKINSON'S	ITA 250.000 U.S.A 1.000.000 (60.000 NEW PATIENTS/Y) Europe 1.000.000	N.A. 25 BILL \$ N.A.	
EPILEPSY	ITA 500.000 U.S.A 3.000.000 Europe 6.000.000	N.A. 15,5 BILL \$ N.A.	
AUTISM	ITA 880.000 U.S.A 3.500.000	N.A. 35 BILL \$ (COST FOR CHILDREN: FROM 11 TO 60.9 BILL \$)	
SLEEP DISTURBANCES	ITA 7-10.000.000 U.S.A 50-70.000.000	IN ITALY POLYSOMNOGRAPHY FROM 200 TO 2.000 \$ / EXAM, IN US FROM 1.100 TO UP OF 4.800 \$ / EXAM	
HEART DISEASES *	IN U.S. 85 MILLIONS SUFFER FROM CARDIOV. DIS. (THE 50% OF AFRICAN AMERICANS). EVERY YEAR 735.000 ISCHAEMIC MYOCARDIAL ATTACK (IMA)	U.S. IMA AND STROKE * > 320 BILL/Y FOR HEALTH EXPENDITURE AND LOST PRODUCTIVITY	
STROKE *	ITA 200.000 U.S.A 800.000 WORLD ESTIM. 15.000.000	14,5 BILL \$ 36,5 BILL \$ (ONLY STROKE*)	
FALLS AND FRACTURES	MILLIONS OF PEOPLE AGED > 65 AA 33 % AGED PEOPLE FALL / Y IT IS THE FIRST ACCIDENTAL CAUSE OF DEATH	USA 2013 = 34 BILL – AV COST 35.000 \$ /P NOT INCLUDED WORK TIME LOST, LONG TERM EFFECTS, REHAB	
MULTIPLE SCLEROSIS	WORLD ESTIM. 1.000.000	N.A.	
MUSCLE DYSTROPHY	WORLD ESTIM. 0,013% OF PEOPLE	N.A.	
C.S.P. STRICTLY CONFIDENTIAL - DR. MARCELLO RUSPI, PH – VASCULAR SURGEON, MEDICAL CHIEF AND FOUNDER			

OUR PLUS

UNIQUE CE MEDICAL DEVICE & SOLUTION INTENDED USES FLAGGED BY USER

LONG LASTING BATTERIES

SPECIFIC "TAILORED" ALGORITHMS

AUTO LEARNING SOLUTION

AUTOMATIC UPDATES

GATEWAY MODE AVAILABLE



OUR VALUE

DEVICE => EVENTS => ALGORITMHS => AUTO LEARNING => MONITORING HABITS => PROFILING

PERSONAL AND CROWD DATA COLLECTION & MANAGEMENT

PROFILING & PREDICTION

CAREGIVERS – PATIENTS – PHYSICIANS – HOSPITALS –
MINISTRY OF HEALTH – PHARMA – INDUSTRIES – INSURANCES



PROFILING — PREDICTING

PATIENT BEHAVIOR AND HABIT PROFILING ON PAST AVERAGE DATA

ON CROWD LOGISTIC REGRESSION

PREDICTION

OUR IOT VISION "E PLURIBUS UNUM"

BEHAVIOR PROFILING & MANAGEMENT

PROGNOSTIC PREDICTION OF WANDERING ELOPEMENT, GOING LOST, FALL DOWN ETC.

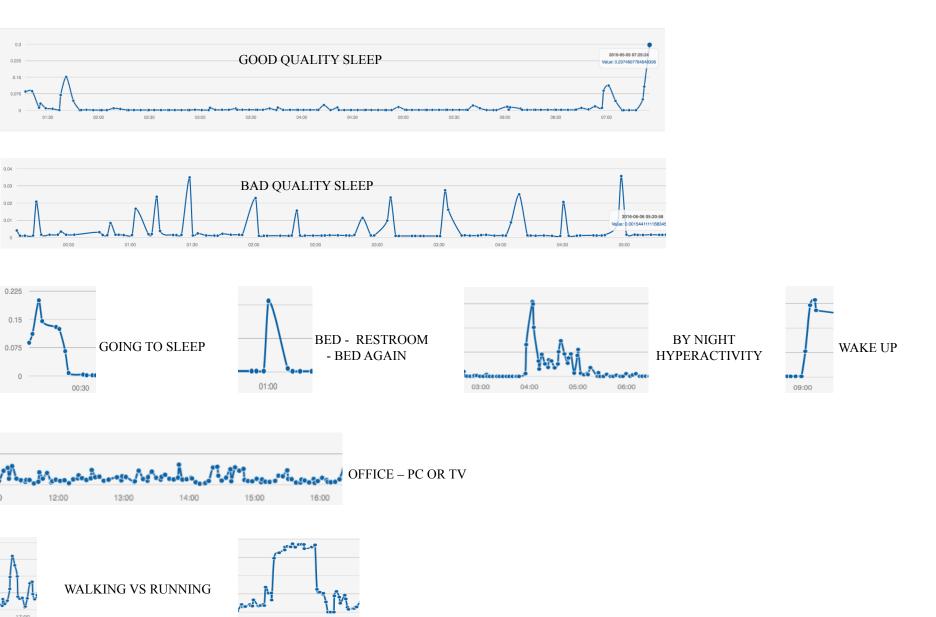
EVALUATION AND VALIDATION
OF BMT OR NEW THERAPIES

CLINICAL OUTCOMES

TREND OF DISEASES



A.L. GRAPHIC EXAMPLE



A.L. AND OUT OF FENCE EXAMPLE







ALZHEIMER'S DISEASE

9-AXIS R.M. MEDICAL DEVICES

1. INTENDED USE: HOSPITAL







SLEEP DISTURBANCES



9-AXIS R.M. MEDICAL DEVICES TO BE PRESCRIBED BY NEUROLOGISTS ON WRIST OR ANKLE OR BOTH

1. INTENDED USE: HOSPITAL







ALZHEIMER'S IOT SOLUTION	ON EVENT R.M. DATA LONG LASTING BATTERIES TAILORED ALGORITHMS & SAMPLING	FRIENDLY USE ALERT ON CAREGIVERS' SMARTPHONE 24/7 OPERATING ROOM FALL DOWN ALERT	OUT FENCE ALERT BEHAVIOR CHANGE TREND OF DISEASES CLINICAL OUTCOME FALL PREDICTION PROFILING
SLEEP DISTURBANCES IOT SOLUTION	CONTINOUS OR ON EVENT R.M. DATA EVENTS WARNING	DIAGNOSIS ASSESSMENT OF PERSONAL BMT BEHAVIOR CHANGE	TREND OF DISEASES CLINICAL OUTCOME FALL PREDICTION
SOLUTION	TAILORED ALGORITHMS & SAMPLING	FRIENDLY USE FALL DOWN ALERT	PROFILING GATEWAY MODE







AUTISM

9-AXIS R.M. MEDICAL DEVICES



1. INTENDED USE: HOSPITAL

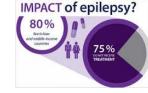












EPILEPSY

9-AXIS R.M. MEDICAL DEVICES TO BE PRESCRIBED BY NEUROLOGISTS

1. INTENDED USE: HOSPITAL



2. INTENDED USE: DAILY LIFE (WHERE- WHEN – HOW LONG)



	ON EVENT R.M. DATA	FRIENDLY USE	BEHAVIOR CHANGE
AUTISM	LONG LASTING BATTERIES	OUT FENCE AND FALL DOWN ALERT ON CAREGIVERS'	CLINICAL OUTCOME PROFILING
IOT SOLUTION	TAILORED ALGORITHMS & SAMPLING	SMARTPHONE 24/7 OPERATING ROOM	& EVENT PREDICTION CRISIS PREVENTION
	CONTINOUS	DIAGNOSIS	TREND OF DISEASES
EDIT EDGA	OR ON EVENT	2.1.0.1.0.1.0	
EPILEPSY	OR ON EVENT R.M. DATA	FRIENDLY USE	ASSESSMENT OF PERSONAL BMT
VERTICAL & IOT	R.M. DATA EVENTS		ASSESSMENT OF PERSONAL BMT CLINICAL OUTCOME
VERTICAL	R.M. DATA	FRIENDLY USE	



PARKINSON'S DISEASE



TWO 9-AXIS R.M. MEDICAL DEVICES TO BE PRESCRIBED BY NEUROLOGISTS ON WRIST OR ANKLE OR BOTH

1. INTENDED USE: HOSPITAL







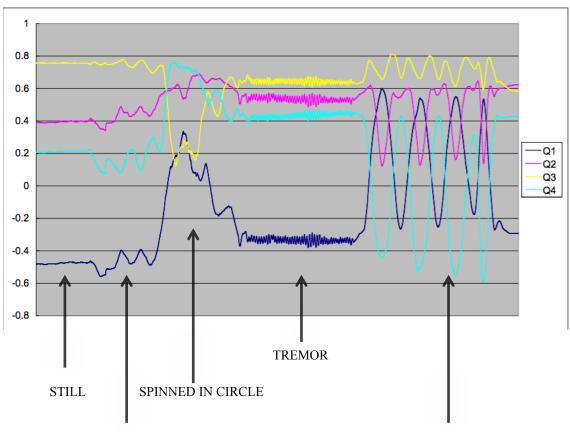


A. ACCURATE MOVEMENT DETECTION





B. ACCURATE MOVEMENT DETECTION

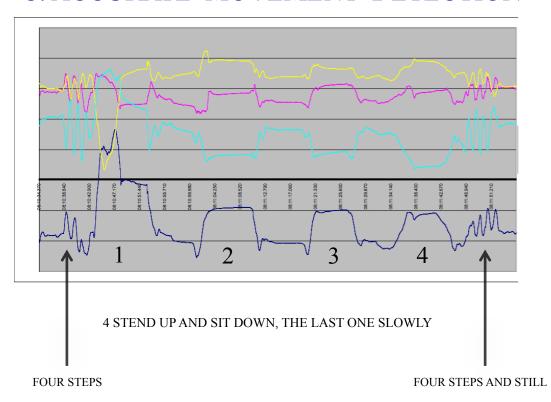


THREE STEPS

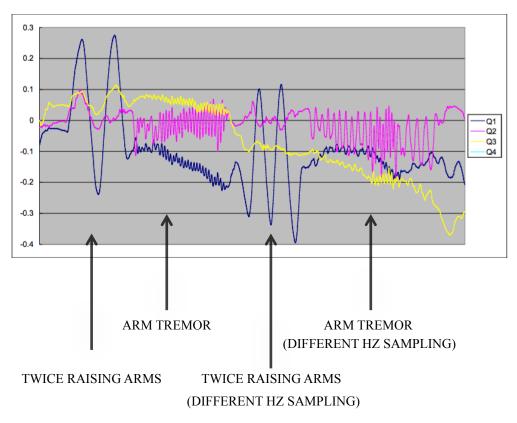
THREE TIMES ARM RAISED SLOWLY,
THE FOURTH QUICKLY



C. ACCURATE MOVEMENT DETECTION



D. ACCURATE MOVEMENT DETECTION



	CONTINUOUS R.M. DATA	STRONG AND FINE MOTOR SYMPTOMS R.M.	ON – OFF STATUS FASCICULATION & TREMORS
STN - DBS IMPLANT VERTICAL SOLUTION	TAILORED KINEMATIC ALGORITHMS & SAMPLING	CALIBRATING ELECTRICAL PARAMETERS	BRADYKINESIA – DYSKINESIA POSTURAL INSTABILITY
	ON SCHEDULED TIME OR EVENT R.M. DATA	ASSESSMENT OF PERSONAL BMT	ALL MOTOR SYMPTOMS
	LONG LASTING BATTERIES	PATIENTS SELECTION FOR DBS IMPLANT	SLEEP DISTURBANCES TREND OF DISEASES
DAILY LIFE		BEHAVIOR CHANGE	FALL PREDICTION
IOT SOLUTION	TAILORED KINEMATIC ALGORITHMS	FRIENDLY USE	LASER POINTER
SOLUTION	& SAMPLING	FALL DOWN ALERT	SIMPLE GATEWAY MODE

CONSOLIDATING AND GROWING THE MARKET - INTERCONNECTIONS

	- /	
	-7/1	

PHARMA

UNIQUE E-HEALTH SOLUTION IN A GROWING IOT MARKET

INNOVATION

EXCLUSIVITY => FIDELITY
AND COSTUMER DEVELOPMENT

CLINICAL OUTCOME

POSITIVE RETURN OF BRAND

RESEARCH

THERAPIES

MEDICAL INDUSTRIES

INSURANCES

MEDTRONIC™ - BOSTON SCIENTIFIC™

CO

COSTUMER DEVELOPMENT

CLINICAL TEST ON DBS

TAILORED PRODUCTS

PATIENT'S SELECTION

TREND OF DISEASE ADJUSTMENT

REMOTE MONITORING BEFORE - AFTER DBS

R.M. PEOPLE SUFERING FROM NEUROLGICAL DISEASES

OUTCOME & TREND OF DISEASE



MORE USE CASES

9-AXIS R.M. MEDICAL DEVICES W/O PRESCRIPTION

1. AGEING PEOPLE LIVING ALONE



2. REST / NURSING HOME



3. USUAL FALLING DOWN PEOPLE



NEXT STEPS

LASER POINTER

HELPING PEOPLE DURING FREEZING

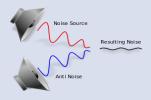
GATEWAY MODE

BODYGUARDIAN [™] - SPO2 - GLUCOMETER

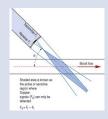
ELECTROMYOGRAPHY - EMG

ELECTROENCEPHALOGRAPHY - EEG

NULLIFYING NOISES PRODUCING BEHAVIORAL CHANGES & SEIZURES



HEART RATE & BLOOD PRESSURE REMOTE MONITORING



2018 2019



SAME FUNCTIONS BUT IMPLANTABLE DEVICE





THANK YOU

MARCELLO RUSPI VASCULAR SURGEON

CSP TELEMEDICINE S.r.l.

Care, Save, Prevent

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