

MEDICAL VALUE BY MEDICAL VALLEY

Medical Valley als Geburtshelfer für
Innovationen im Zukunftsthema eHealth

Sebastian Hilke
21.03.2019

de:hub
digital ecosystems
nürnberg erlangen. digital health



Gemeinschaft starker Partner

Wirtschaft										
abe	3D Shape	uplus..	ACAD	AK Active Key	ADVANOVA	+ erzsee.de	ascuvest	Allerseitig Capital	alpofit	ALPO
AGC	ascendi	ASTRON IT	at design	AIRMANI	aycan	b&e	BIO-DATA	BioEpidem	Bio Gate	BIONTRONIK
biVariance	Birke und Partner,	BLS	BLZ	cedrei	cerbomed	CHIMAEARA	CINNAMED	COGNEON	CORPUS	ESYTEC
bioScience	CT imaging	da nova	designaffairs	DICOM CONSULTING	ebe	eco Medizintechnik	EF-SYSTEMS	elektron	Ergo-Tec	GWK
EvoCare	FO-ELEKTRONIK	FRITZ NUMRIC	Karina PSR	LEADER	linetech	MBM	infoteam	IQ-MOVE	ISCIUE	IA2
HAN MÜLLER	ziegelat	HEITEC	HUMANOPTICS	imbus	Infineon	in law group	iQ CONSULTING	in law group	in law group	Molecular Networks
LEONI	medi	medici	metascan	methodpark	MI CONSULTING	ML law group	MOBIMORSE	peolab	SASSE	SCHEMA
nash	net2scouts	NH	metascan	OECHSLER	ORGMED	OSMUNDA	peolab	softdata	SOHARD	TALKING EYES
Physioscan	Pro F&E	QRM	RESORBA	RÖHDE	Rosina	SALINO	SCHEMA	SOHARD	TRIZAX	WÖLFL
schabell	seiratherm	SEMICASE	senetics	sepp.med	SIEMENS	SIMETRIS	St. John's Hospital	St. John's Hospital	St. John's Hospital	St. John's Hospital
Solnovo!	Spinecare	ST ERICSSON	Staub Events	voigtmann	WaveLight	webcentrics	Weltklinikum	Weltklinikum	Weltklinikum	Weltklinikum
rti surgical	UC SYSTEMS	iSchneider	VHO	VISIOLIGHT	voigtmann	Weltklinikum	ZIMT	ZIMT	ZIMT	ZIMT
ertuum medical	ritmImaging	SELLHOFF								

Wissenschaft									
agira	FAU	Fraunhofer	titv	irti	Franziska Hölzl				
					ZIMT				

Gesundheitsversorgung									
Bayernärztliche Klinik	gepflegt	grüne Tafel	Klinik Nürnberg	IPZ Lichtenfels	naip	Preston's Marketing für Medienagentur	Quali	Smartphone Doctor	Unternehmensärzte

Unterstützer									
ASQF	ATC WTC	BayStartUp	Blue Chip Management	GO	kontakt	ANSBACH	Netwerk	Unternehmerfabrik	

Dr. Siegfried Balleis | Dr. Franz Hermann | Dr. Ursula Hahn | Dr. Frank Hitzegrad | Peter Kartmann | Dr. Ildar Khassanov
 Roland Köppel | Wolfgang Kroll | Dr. Stefan Lang | Stephan Malter | Dr. Horst Poimann | Prof. Dr. Erich Reinhardt
 Prof. Dr. Jürgen Schüttler

500

More than 500 companies are active in medical technology

65

More than 65 hospitals, coupled with a strong outpatient sector, provide first-class healthcare.

850.000

Over 850.000 inpatients are treated in the Medical Valley each year

80

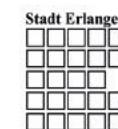
More than 80 institutes at universities and universities of applied sciences research and teach with a focus on medical technology

20

More than 20 non-university research institutions carry our research in the field of medical technology



Premium Partner



NATIONAL DIGITAL HEALTH HUB #MEDICALVALLEY



Bundesministerium
für Wirtschaft
und Energie

de:hub
digital ecosystems
nürnberg erlangen. digital health

LOGISTICS
HAMBURG

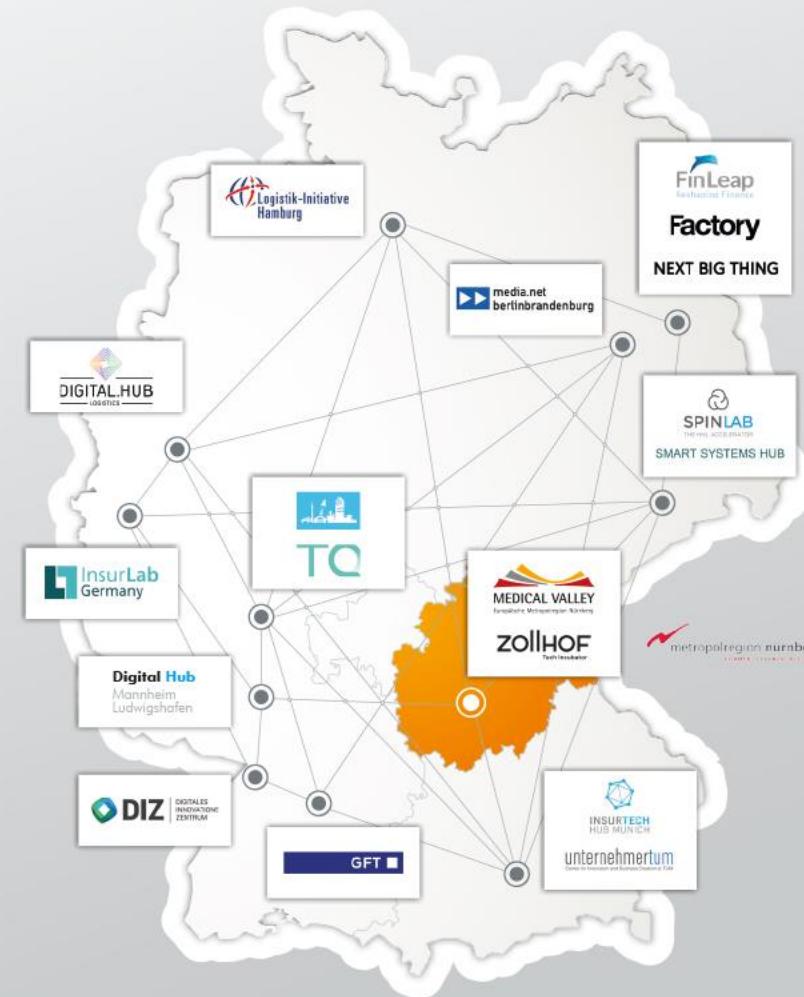
LOGISTICS
DORTMUND

INSURTECH
COLOGNE

DIGITAL CHEMISTRY & HEALTH
MANNHEIM / LUDWIGSHAFEN

ARTIFICIAL INTELLIGENCE
KARLSRUHE

FUTURE INDUSTRIES
STUTTGART



IOT & FINTECH
BERLIN

MEDIATECH
POTSDAM

SMART SYSTEMS & INFRASTRUCTURE
DRESDEN / LEIPZIG

FINTECH & CYBERSECURITY
FRANKFURT / DARMSTADT

DIGITAL HEALTH
NÜRNBERG / ERLANGEN

MOBILITY & INSURTECH
MUNICH

Zusammenarbeit mit der Themenplattform Digitale Gesundheit/Medizin am Zentrum Digitalisierung.Bayern



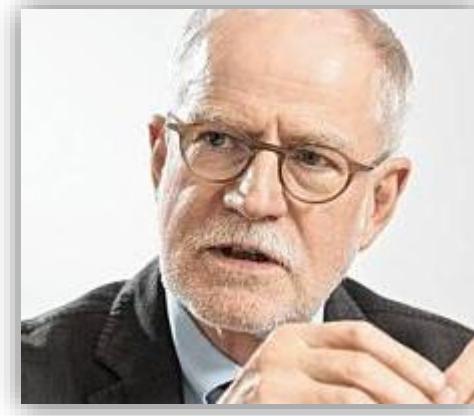
Maria Marlene Bohrer-Steck
ZD.B

Koordinatorin
Themenplattform
Digitale Gesundheit/Medizin



Sebastian Hilke
ZD.B/Medical Valley

Koordinator
Themenplattform
Digitale Gesundheit/Medizin



Prof. Dr. Christoph Reiners
Universitätsklinikum Würzburg

Wiss. Sprecher
Themenplattform
Digitale Gesundheit/Medizin

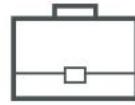


Prof. Dr.-Ing. Erich R. Reinhardt
Medical Valley

Wirtsch. Sprecher
Themenplattform
Digitale Gesundheit/Medizin

ACTIVITY FIELDS #MEDICALVALLEY

1



BUSINESS ACTORS

2



RESEARCHERS & TEACHERS

3



HEALTHCARE PROVIDERS

TRAINING &
EDUCATION

INNOVATION
DRIVEN RESEARCH

BUSINESS
CREATION

INFRASTRUCTURES
FOR INNOVATION

IMPROVEMENT
OF CAPABILITIES
TO INNOVATE

NEW PRODUCTS,
SERVICES AND
BUSINESS MODELS

MORE QUALIFIED
START-UPS AND
SPIN-OFFS

MORE INNOVATION
AND OPTIMIZED
TIME-TO-MARKET

TRAINING & EDUCATION
IMPROVEMENT OF CAPABILITIES TO INNOVATE

„NEUE NÄHE-HACKATHON“ WITH AKTION MENSCH & MICROSOFT

**AKTION
MENSCH**



DIGITAL HEALTH CHALLENGE

DHC.MEDICAL-VALLEY-EMN.DE



JOINING THE CREATION OF FUTURE HEALTHCARE *SERIES OF HEALTH HACKING EVENTS FOR INTERDISCIPLINARY TEAMS*

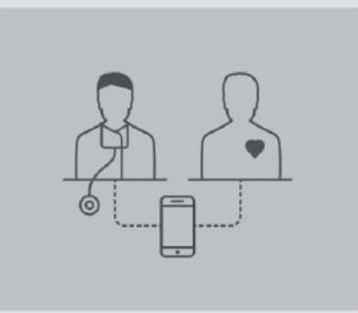
 **DIGITAL HEALTH
CHALLENGE**



**MASTER THE
MAZE OF
HEALTHCARE
INSTITUTIONS**



**HEALTH HACK
YOUR HOME**



 **SIEMENS
Healthineers**

 **NOVARTIS**

 **NÜRNBERGER
VERSICHERUNG**

HEALTH HACKERS

HEALTH HACKERS

ERLANGEN

meets @ MedTech Events Winter 2018/19



#2. Sprechtag Kompetenzpool Zulassung am 21.02. von 10-17 Uhr

- 60minütige Einzelgespräche zu Klinischen Prüfungen und Fragen rund um die Medizinprodukte-Entwicklung und CE-Konformität => Ein besonderer Schwerpunkt wird auch der Wechsel auf die neue Medical Device Regulation sein

#WER

Gesprächspartner für die folgenden Fragestellungen sind:

Beratung Klinische Prüfung:

Dr. med. Stefanie Maas und Dr. med. Bernd Gebhardt MBA

Center for Clinical Studies, Universitätsklinikum Erlangen

Professor Dr. med. Jens Ellrich

Translationale Medizin – Klinische Prüfungen

Beratung Zulassung und CE- Konformität & Wechsel auf MDR

Wilfried Scherz

2. Vorstand Know-How-Transfer e.V. und Leiter des Kompetenzpool Zulassung

INNOVATION DRIVEN RESEARCH
NEW PRODUCTS, SERVICES AND BUSINESS MODELS

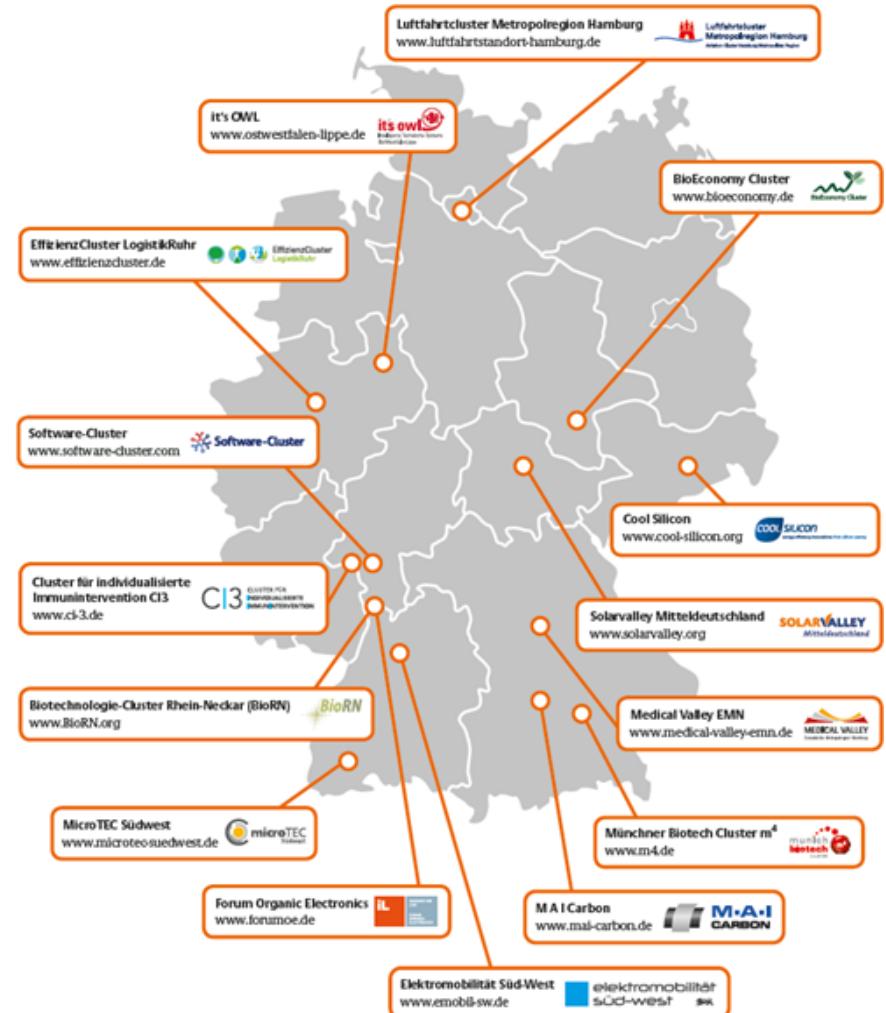
#MEDICAL VALLEY HELPS TO ACQUIRE PUBLIC FUNDINGS

- Medical Valley coordinates (in cooperation with Forum MedTech Pharma) all funding lines on the Bavarian level which are addressing MedTech and Digital Health
- We runned programs on the national level (BMBF, BMWi), for instance Spitencluster and ZIM-KN
- We are engaged in Horizon 2020 and runned projects in Interreg on the European level
- Since 2010 we acquired more than 150 Mio. € public funding for our partners!

GERMANY'S CLUSTERS OF EXCELLENCE

- Medical Valley EMN was selected as cluster of excellence in the second competition round in 2010
- One of 15 clusters of excellence in Germany and the only one in the field of medical technology
- Subsidies: up to 50% co-financing for R&D projects within the cluster

- 45 projects with a total budget of over € 81 m
 - Horizontal innovations for product and process optimization: 6 projects
 - Diagnostic imaging: 16 projects
 - Treatment systems (Personalized Medicine): 7 projects
 - Intelligent Sensors: 9 projects
 - Ophthalmology: 7 projects
- SMEs as well as partners for clinical validation are involved in more than 50% of the projects



Quelle: Bundesministerium für Bildung und Forschung (BMBF)

SPONSORED BY THE



Federal Ministry
of Education
and Research

MEDICAL VALLEY
Europäische Metropolregion Nürnberg

BARRIER FREE HEALTH ASSISTANCE

Enabling people to lead a longer and independent life in their home



Sensor
technology

Telemetry



Emergency
call



Medical
call center



Leisure time &
sports



Family &
neighbors

Innovative
services



MEDICAL VALLEY

Europäische Metropolregion Nürnberg

Smart Sensors Projects



moio. Das intelligente Pflegepflaster.

Unser cleveres TeleCare-System unterstützt Sie bei zahlreichen pflegerischen Herausforderungen.

Erfahren Sie mehr über unsere aktuelle Crowdfunding-Kampagne und helfen Sie dabei, moio für den Marktstart startklar zu machen!

[Zum Crowdfunding](#)

d.hip – Digital Health Innovation Platform



Ambition: Innovationsführer im Bereich „Digitale Medizin“

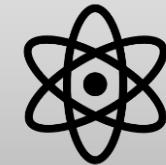
d.hip projects



d.hip space



d.hip campus



d.hip digital health data center



 d.hip community 

SIEMENS
Healthineers

Universitätsklinikum
Erlangen

FAU
FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

MEDICAL VALLEY
Europäische Metropolregion Nürnberg

BUSINESS CREATION
MORE QUALIFIED START-UPS AND SPIN-OFFS

2003

MEDICAL VALLEY CENTER
ERLANGEN

2016

MEDICAL VALLEY CENTER
FORCHHEIM

2018

MEDICAL VALLEY CENTER
BAMBERG

TBD

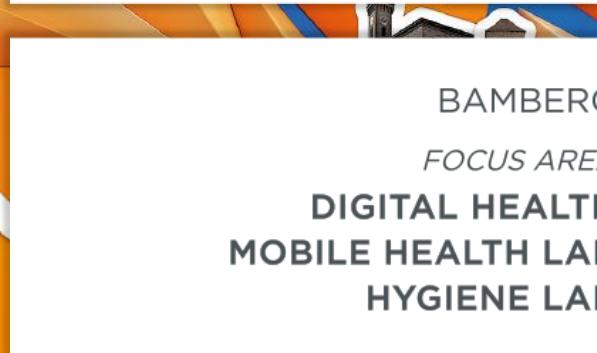
MEDICAL VALLEY CENTER
AMBERG-WEIDEN



ERLANGEN



FORCHHEIM



BAMBERG

FOCUS AREA

DIGITAL HEALTH
MOBILE HEALTH LAB
HYGIENE LAB



AMBERG-WEIDEN

FOCUS AREA

RURAL HEALTH

de:h

digital ecosystem
nürnberg erlangen

35 Start ups in medical technology & healthcare IT
> 50 Mio. € Venture Capital
more than 70 companies incubated
more than 500 jobs created



MEDICAL VALLEY

Europäische Metropolregion Nürnberg

MEDICAL
VALLEY
AWARD

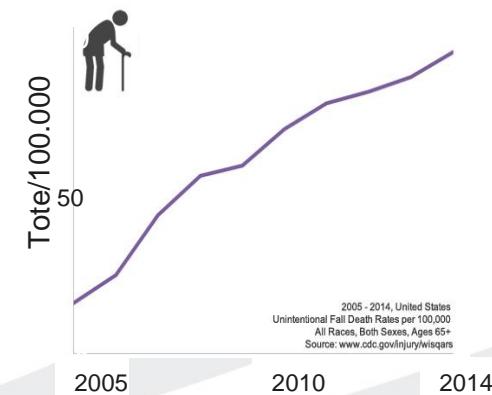


2018

WIR SUCHEN DIE BESTEN IDEEN
IN DER GESUNDHEITSWIRTSCHAFT

41 proposals in total,
21 out of Medical
Valley region

Projekt: Sensorbasierte Ganganalyse und Algorithmen zur Sturzrisiko Erkennung



Medical Valley International Activities

EIT HEALTH



Medical Valley International Activities

GOGLOBAL PROGRAM



INFRASTRUCTURES FOR INNOVATION
MORE INNOVATION & OPTIMIZED TIME-TO-MARKET

BAVARIAN GOVERNMENT SUPPORTS DEVELOPMENT OF AN **UNIQUE HEALTHCARE INNOVATION ECOSYSTEM**

1



MEDTECH.DIALOG.BAYERN
REGULATORY AFFAIRS
DIGITALIZATION

2



**MASTERPLAN
DIGITALIZATION BAYERN II**
DEVELOPMENT
OF A ROADMAP

3



**MOBILE
HEALTH LAB**
EXAMPLE

Willkommen zum Roundtable

Bayerisches Innovationsbündnis
gegen Krebs

Eine Initiative von



NOVARTIS

SIEMENS
Healthineers



Pressemitteilung

04.02.2019

Nr. 16/GP

[↓ PDF-Download](#)

Huml startet gemeinsam mit Vertretern aus dem Gesundheitswesen das Bayerische Innovationsbündnis gegen Krebs – Bayerns Gesundheitsministerin: Innovationen fördern und flächendeckend den Patientinnen und Patienten zugänglich machen

Bayerns Gesundheitsministerin Melanie Huml hat am Montag mit Vertretern von Ärzteschaft, Forschung und Industrie sowie von Krankenkassen ⁱ das Bayerische Innovationsbündnis gegen Krebs gestartet. Huml betonte entlastend der Auftaktveranstaltung in Nürnberg: „Jährlich erkranken in Bayern circa 61.000 Menschen an on-

MOBILE HEALTH LAB

SET UP OF A WORLDWIDE UNIQUE TEST ENVIRONMENT
SIMULATION OF REAL TREATMENT CASES



PVS



RIS



PACS



KIS



MORE



MORE



MORE



MORE

**DIGITAL
HEALTH
PLUG & PLAY
CENTER**

TI-LAB

TEST DATA

ANONYMIZED PATIENT PROFILES



BI SOFTWARE



APOIS



MAINTENANCE P&D



COM SERVER



MORE



MORE



MORE



MORE

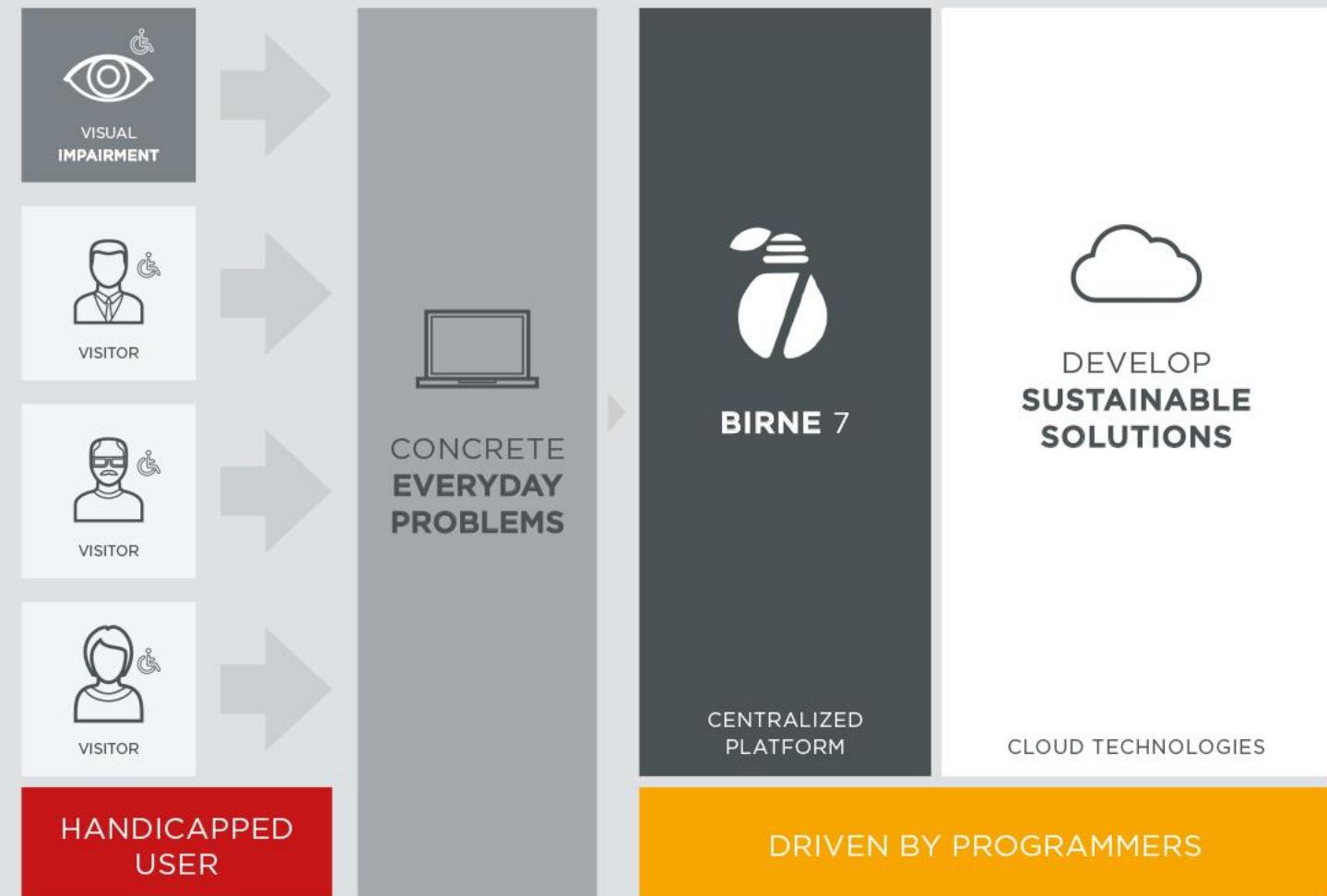
INNOVATION FOR INCLUSION

WWW.BIRNE7.DE



BUILDING A REGIONAL INCLUSION NETWORK

BIRNE7 IS AN ACRONYM FOR ACCESSIBILITY, INCLUSION, REALITY, NETWORKS AND RESULTS.





M E D I C A L
S V A L U E R
G T B Y F O N
M E D I C A L
Y V A L U E R