



Continua Health Alliance: The Next Generation of Personal Telehealth is Here

A non-profit, open industry alliance of the finest healthcare and technology companies in the world joining together in collaboration to improve the quality of personal healthcare.



Continua
HEALTH ALLIANCE

The Continua Health Alliance

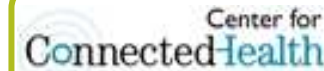


“Our Mission is to establish an eco-system of interoperable personal health systems that empower people & organizations to better manage their health and wellness”



Promoter Members

Open
International



GE Healthcare



- Alere
- Allion Test Labs, Inc.
- All Medicus Co., Ltd.
- American Heart Association
- Analog Devices
- Analogic Corp.
- Andago Ingenieria s.l.
- AppsHub, Inc.
- AT4 Wireless
- AT&T Mobility
- AViTA
- BiancaMed
- BIOSPACE Co., Ltd.
- Bluegiga Technologies Oy
- Boston Scientific
- British Telecommunications
- Cambridge Consultants Ltd.
- Capital Health
- Card Guard AG
- Cardiff University
- Cardiomedix Inc.
- CELS, Ltd.
- Centre for Global eHealth Innovation
- Cerner Corporation
- Chiptech Limited
- Christus Health
- Chunghwa Telecom Co., Ltd.
- Claricode, Inc.
- Computerized Screening, Inc.
- ConnectBlue AB
- Continuity Health
- Convergence Wireless, Inc.
- CSR plc
- CYPAC AB
- Cypress Semiconductor
- Dell
- Digi International
- Dossia Consortium
- Dovetail Health
- Duodecim Medical Publications
- Dynastream Innovations Inc.
- Ember Corporation
- Empirica GmbH
- Ericsson Nikola Tesla d.d.
- ETRI
- EuroTech, Inc.
- Fairbanks Scales
- FitLinxx
- Foundation for Research and Technology
- France Telecom R&D, LLC
- Freescale Semiconductor
- Frontline Test Equipment
- Fujitsu Limited
- Fullpower Technologies
- GC Healthcare Corp.
- GenerationOne, Inc.
- GlaxoSmithKline
- Google Inc.
- Hitachi, Ltd.
- Home Guardian, LLC
- HoMedics
- Honeywell HomMed LLC
- Hosiden Corporation
- Industrial Technology Research Institute
- Infineon Technologies
- INFORSON Co., Ltd.
- InfraRed Integrated Systems Ltd.
- Innomed Medical Zrt.
- In Practice Systems Limited
- Institute for Infocomm Research
- Institute of Biomedical
- InterComponentWare, Inc.
- Konami Sports and Life
- LAXTHA Inc.
- LG CNS
- LG Electronics Inc.
- LifeGate, Inc.
- Lifescan
- LS Research, LLC
- MEDCEL
- Medixine Oy
- MedSignals
- MedTech Systems Inc.
- Microlife Corporation
- Midmark Corporation
- Misys Healthcare Systems
- Monitray, LLC
- Motorola
- MIR- Medical International Research
- Neusoft Medical Systems
- Nippon Telegraph and Telephone Corporation
- Nitto Denko Corporation
- Novo Nordisk
- Nuubo (Smart Solutions Tech)
- ON Semiconductor
- Oracle
- Oregon Medical Labs
- Oregon Scientific Inc.
- PA Consulting Group
- Pfizer
- Precor Fitness
- Proskauer Rose LLP
- Proteus Biomedical, Inc.
- RMD Networks
- Ryoyo Electro Corporation
- Sensor Technology & Devices Ltd
- Shimmer Research
- SHL Telemedicine
- Shorewood Packaging
- Silicon and Software Systems
- Smartlife Technology Ltd
- Sony Electronics Inc.
- Southern Nevada Wellness
- Stichting IMEC - Nederland
- Stollmann E+V GmbH
- STMicroelectronics
- TaiDoc Technology Corporation
- Tanita Corporation
- TechnoGym
- Tekoa Technologies Inc.
- Telbios, SpA
- Telecom Italia SpA
- Telefonica S.A.
- Telehealth Solutions Ltd.
- TeleMedCare Pty Ltd.
- Telus Communications Company
- Terumo Corporation
- Textronics Inc.
- The Scottish Centre for Telehealth
- Toshiba Home Appliances Corporation
- Toumaz Technology Limited
- Triage Wireless Inc.
- Tyco Electronics
- Tynetec Ltd
- UnitedHealth Group
- University of Miami - Miller School of Medicine
- Verizon
- VivoMetrics, Inc.
- VTT Technical Research Centre of Finland
- Westchester Institute for Human Development
- Whole Health Management
- Wipro
- Zarlink Semiconductor
- Zensys

- Worldwide today:
 - 1 billion adults overweight
 - 860 million chronic disease patients
 - 600 million elders age 60 or older
-
- 75-85% of healthcare spending is on chronic disease management



Health and Wellness

One billion adults overweight world wide



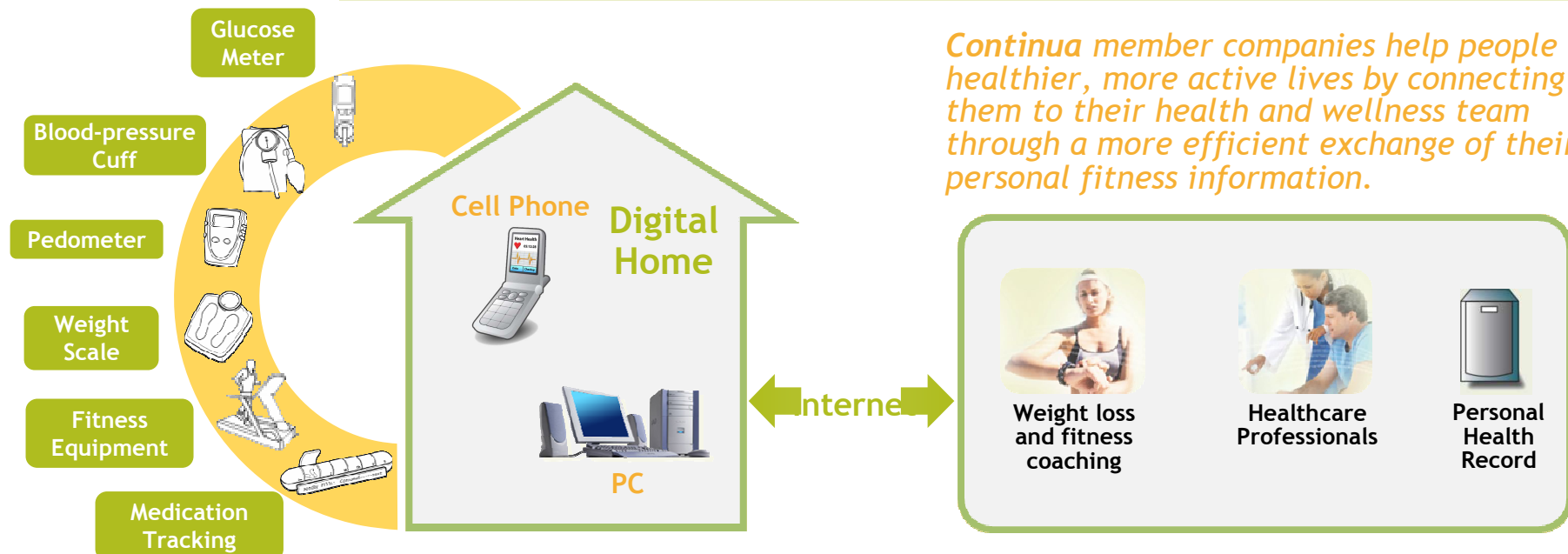
Healthy Family

Health and Wellness

- “Worried well” vital sign monitoring:
 - Weight
 - Blood pressure
 - Glucose
 - Cholesterol
 - Activity level

In the future...

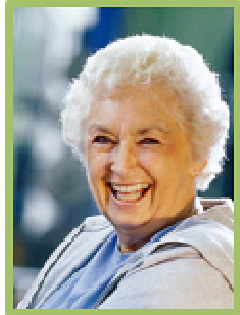
- Extension of healthcare system into the home
- Initial triage of non-emergency conditions
 - Vital signs
 - Images
 - Email / chat / video



Continua member companies help people live healthier, more active lives by connecting them to their health and wellness team through a more efficient exchange of their personal fitness information.

Disease Management

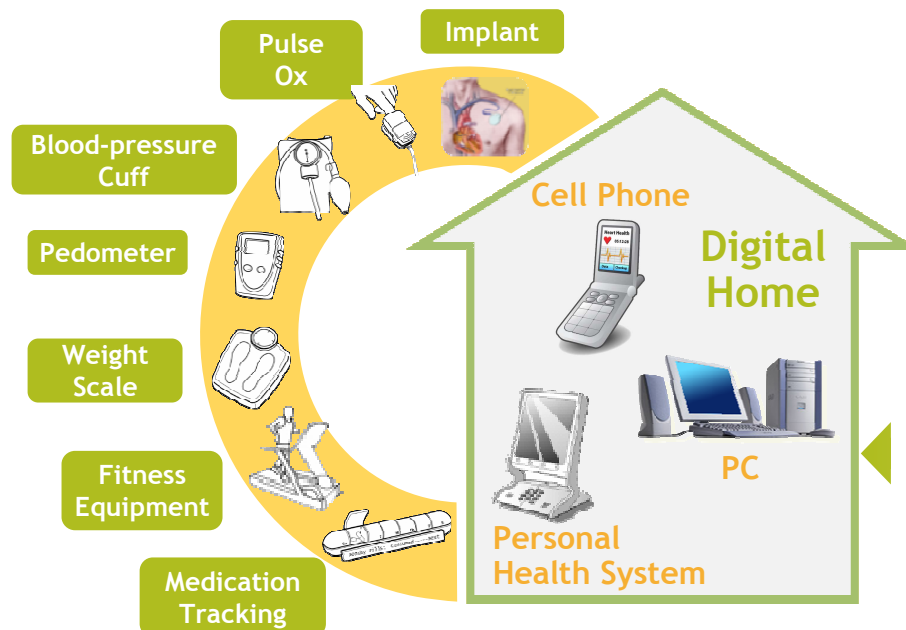
860 million chronic disease patients world wide



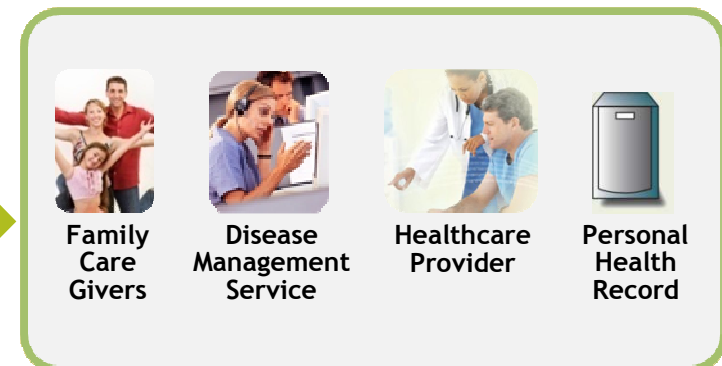
Disease Management

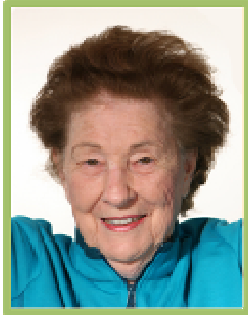
- Vital sign monitoring (remote patient monitoring)

- Chronic disease
- Post trauma
- Pre-op



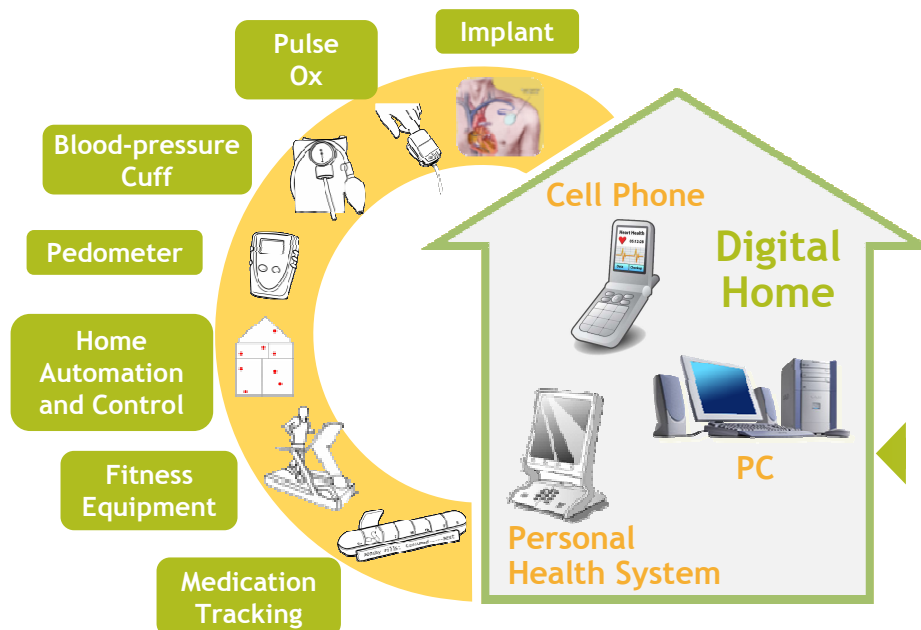
Continua member companies help people with chronic conditions live healthier lives by connecting them to their care team through a more efficient exchange of personal health information.



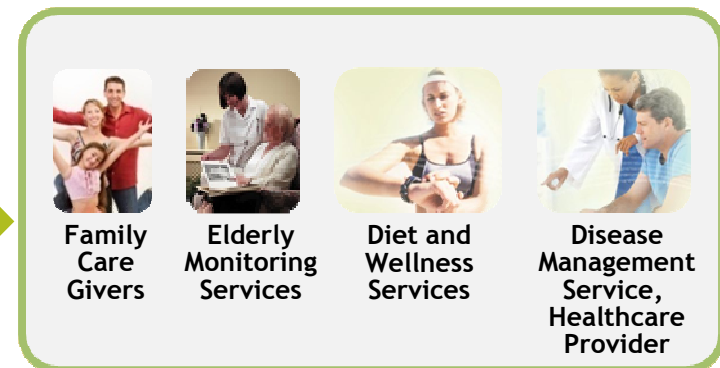


Aging Independently

- Independent living
- Chronic disease
- Basic life monitoring as appropriate (ADL):
 - Bed pressure (sleep)
 - Bathroom sensor
 - Gas / water sensor
 - Emergency sensor



Continua member companies help the elderly age independently, with dignity and security, through the efficient exchange of personal health and safety information that connects them to their family and care team.





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Version One Device Connectivity Standards

Pulse
Oximeter



Pulse /
Blood Pressure



Weight
Scale



Glucose
Meter



Cardiovascular
and Strength
Fitness Monitor



Independent
Living Activity



Medication
Monitor



IEEE

- ISO/IEEE 11073-10404 = Pulse Oximeter
- ISO/IEEE 11073-10406 = Pulse / Heart Rate
- ISO/IEEE 11073-10407 = Blood Pressure
- ISO/IEEE 11073-10408 = Thermometer
- ISO/IEEE 11073-10415 = Weighing Scale
- ISO/IEEE 11073-10417 = Glucose
- ISO/IEEE 11073-10441 = Cardiovascular Fitness Monitor
- ISO/IEEE 11073-10442 = Strength Fitness Equipment
- ISO/IEEE 11073-10471 = Independent Living Activity
- ISO/IEEE 11073-10472 = Medication Monitor



Bluetooth Medical
Device Profile Specification



USB Personal Healthcare
Device Class Specification



PC



Personal
Health System



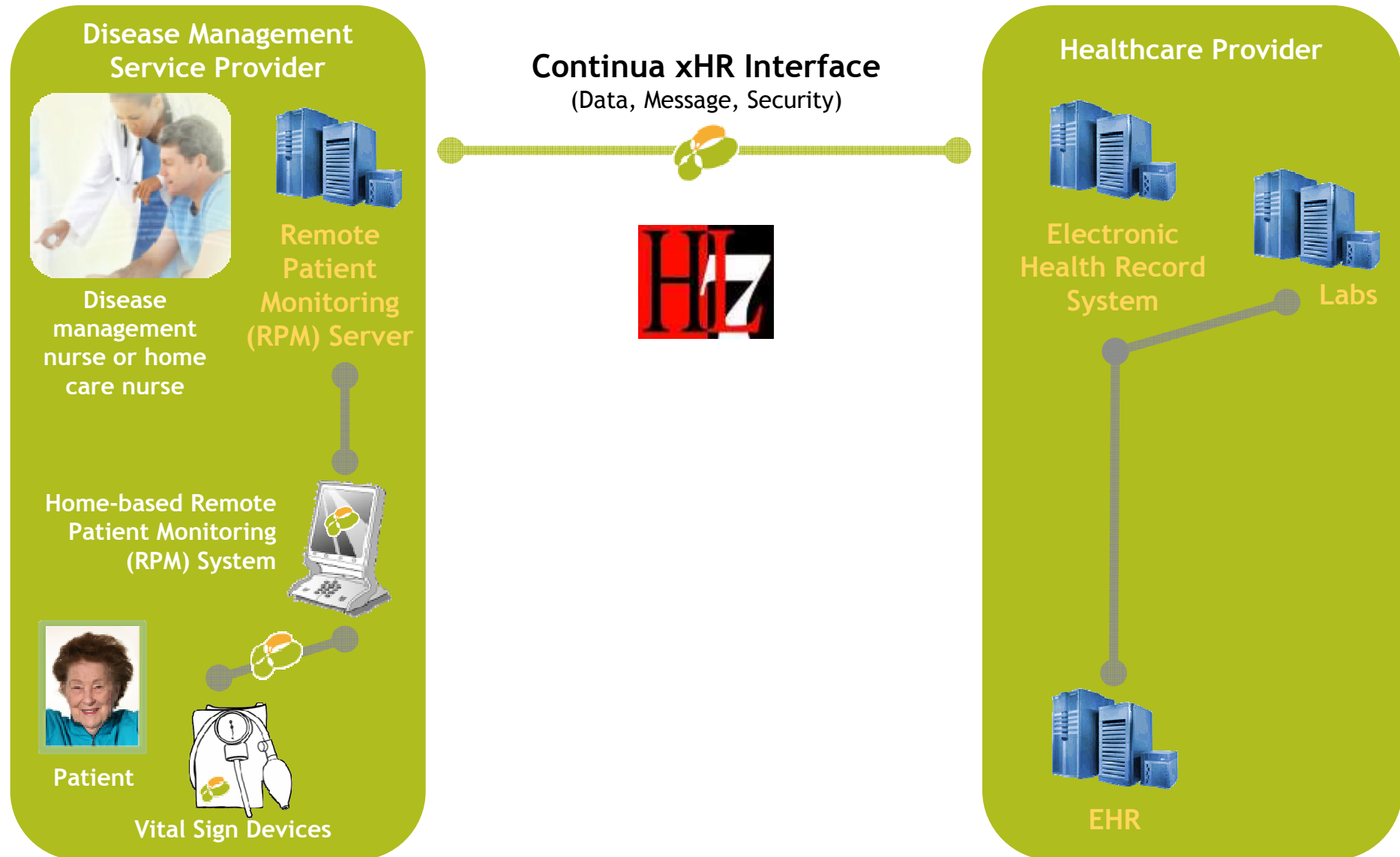
Cell Phone



Set Top Box



Aggregator



Developer Resources

- Web-based environment (repository, collaboration tools)
- Reference source code

Certification

- Test and certification tools
- Right to use certified logo upon completion of successful certification

Market Intelligence

- Access to market research data
- Access to pre-publication drafts of the design guidelines
- Internal and external education and training

Collaboration

- Plugfests participation
- Participation in RFP MatchMaker program
- Unlimited participation in Continua quarterly summits, town hall meetings, and education seminars

Guidelines

Continua member companies will select connectivity standards and publish Guidelines for strict interoperability.

Certification and Logo

Continua is establishing a test and certification program with a recognizable logo signifying the promise of interoperability with other certified products.

Product Applications



Product Substrates



Electronic Media / Software



Product Packaging



Source Code Library

- 500 modules of member-written source code already available in our library...downloaded by dozens of companies
- We are paying contractors to write the rest. Planning on \$1M in 2008...add more code to the library each year
- Structured as library of modules w/ API
- Reference code only—use at your own risk (disclaimer)

Generic Reference Platform

Not optimized for a specific device:

- Operating system: Windows XP
- Hardware: X86-based
- Language: C/C++

Implement Mandatory Features of Guidelines



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First Plugfest—April, 2008 Luxembourg

V1 PAN Interface Using ISO/IEEE PHD Standards

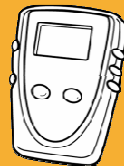
10 Companies



2 PAN Interface Transports



7 Devices



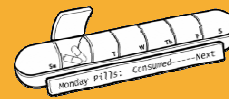
Cardio



Glucose
Meter



Pulse
Oximeter



Medication
Monitor



Blood
Pressure
Monitor



Weighing
Scale



Thermometer

First Public Interoperability Demonstration

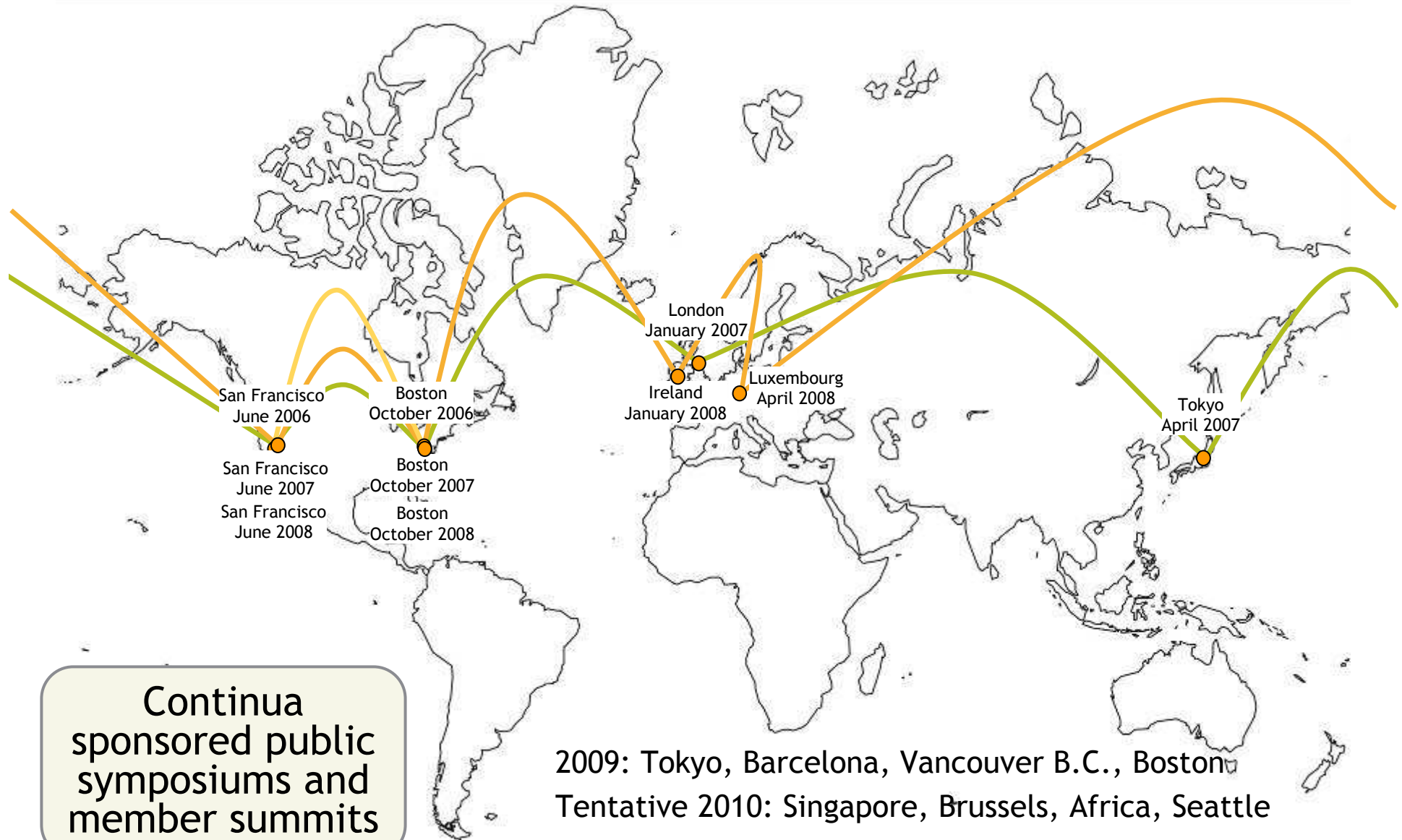
Harvard Medical Amphitheater | October 27, 2008



The Continua Matchmaking Program: Helping members and non-members find solutions for new health and chronic disease management programs

- Help healthcare providers find world class vendors who are developing the next generation of personal telehealth devices and services
- Come to our website, fill out a simple RFP-like form and submit it. Our Continua vendor community will receive notification and contact you
- http://www.continuaalliance.org/match_program

Building Awareness Around the World...





Thank you!