P2LINK

Efficient Telemedicine Solutions

e-Health disruption!

INNOVATIVE & EFFICIENT TELEMEDICINE SOLUTIONS

end-to-end implementation of connected solutions for telemedicine and secondary prevention services destined to chronic disease patients

SECONDARY PREVENTION

P2link offers a powerful and wide range of secondary prevention solutions and services designed specifically for patients, medical teams and caregivers.

7/7 e-Health call center
Our care managers work under the supervision of medical team and are assisted by nurses. Our care managers have also received training in the field of social work.

Predictive engine
Indicators automatically include data collected by our engine such as lab test results, physiological, social and psychological parameters.

Chronic diseases
The goal is to reduce the frequency of admissions, shorten stays in hospitals and improve patient wellbeing.

e-Health cloud
100% cloud solution and partnerships with Qualcomm life and Microsoft Azure for cloud service deployment.

Safety and data confidentiality
Expertise and experience acquired in Europe pertaining to safety and confidentiality of health-related data at the payer and beneficiary/patient level.

Care givers
Involving caregivers ensures that a patient's social environment is taken into consideration. They are an integral part of the system.

Care manager
Fully attentive to the needs of patients and caregivers and a central role in patient follow up

Because life is at home... not in hospital

P2LINK SECONDARY PREVENTION SYSTEM

PREDICTIVE ENGINE
Predicts decompensation before it occurs

HOSPITAL
Reference center and medical team

CLOUD
Lies at the heart of the big data managed by **P2link** and guarantees reliability and safety

CAREGIVERS
Provide the P2link solution with crucial social and psychological input

CALL CENTER DEDICATED TO e-HEALTH
Care manager, nurse, proactive 7/7 team focusing on secondary prevention

PATIENT AT HOME
Helping the patient stay at home in total safety

P2LINK
Efficient Telemedicine Solutions

TELEMEDICINE BY P2LINK

Enhanced efficiency at the fingertips
of the healthcare stakeholders managing
patients with chronic diseases

care team
the connection with and around
patients is nurtured and reinforced

caregivers
a team of volunteer patients
with motivational techniques

social environment
various circles of caregivers
around patients

AN EFFICIENT APPROACH

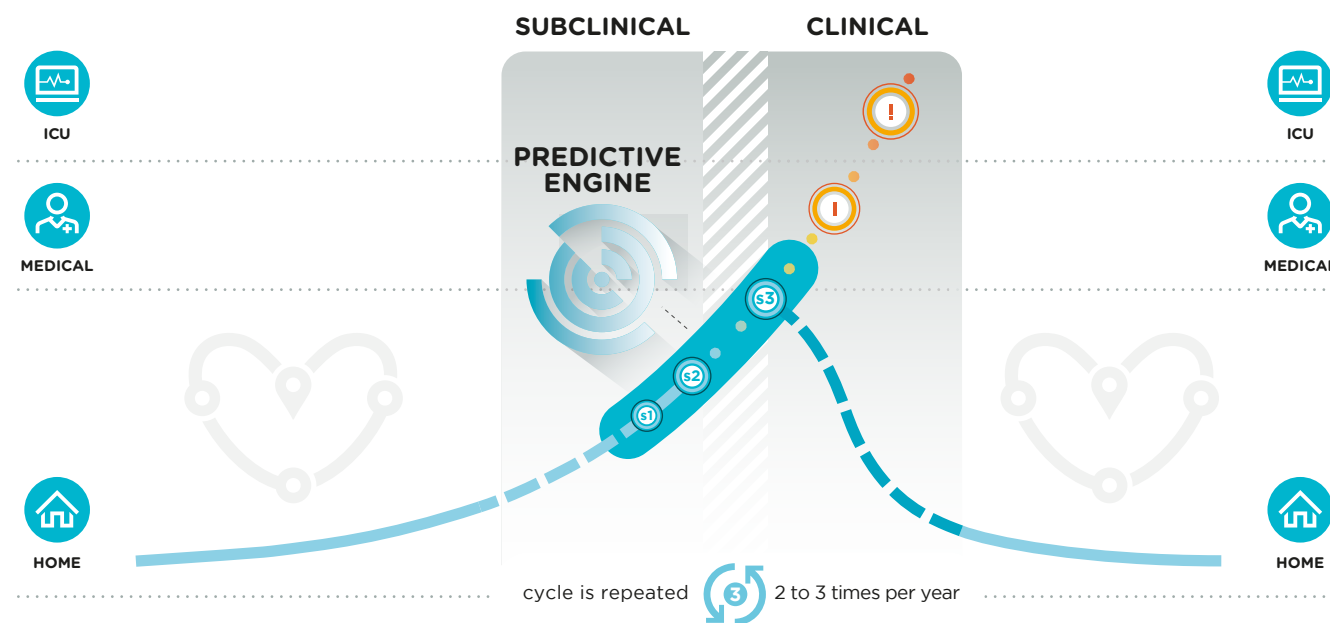One of the aspects which makes P2link so unique is that the patient's environment is considered in its full complexity.

The information system developed by **P2link** based on the predictive engine as well as the layers of human support deployed around patients takes the full range of pertinent information into account, including lab test results, physiological, psychological, social parameters and so forth.

This information is translated into highly differentiating indicators based on numerous clinical trials. Thanks to the predictive engine, secondary prevention measures are then obtained.

P2link's methodological and scientific approach to the volunteer caregiver environment is one of the linchpins of the system. **P2link** bolsters motivation and interaction in and around the social and psychological circles which make up the patient's environment thus ensuring clients reach their goals.

∧ Patient and care team together

SUBCLINICAL CLINICAL

ICU ICU

PREDICTIVE ENGINE

MEDICAL MEDICAL

HOME HOME

cycle is repeated 2 to 3 times per year

Focused on the hospitalization cycle and the patient's environment ∧
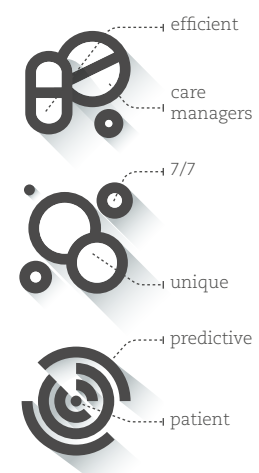Our system enables to reduce the hospital admission rate and the average duration of hospitalization

Our unique Predictive engine
Thanks to our Predictive Engine we strengthen the secondary prevention of patients taking into account patient environment

CONNECTED AND PREDICTIVE SOLUTION

detecting the first signs
of health status deterioration

> Keynote presentation of the LP1 predictive solution,
> one of the core elements of our e-Health and Digital-Pharma services

A MAJOR INNOVATION

efficient

care managers

7/7

unique

predictive

patient

P2link solutions provide complete management of all aspects of secondary prevention destined to chronic disease patients. **P2link** handles all the sources of data and thus ensures a fully integrated and highly efficient solution. The rules engine and predictive engine automate the process and provide the medical call center with industrial-style input concerning patient monitoring and alerts, thus optimizing secondary prevention.

Medicine
Medical teams consult the call center and "care managers" for day to day follow-up of their patients.
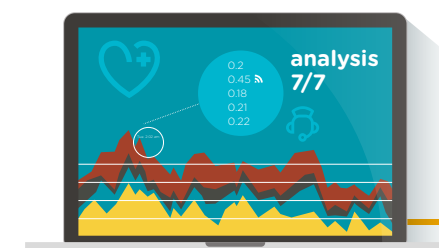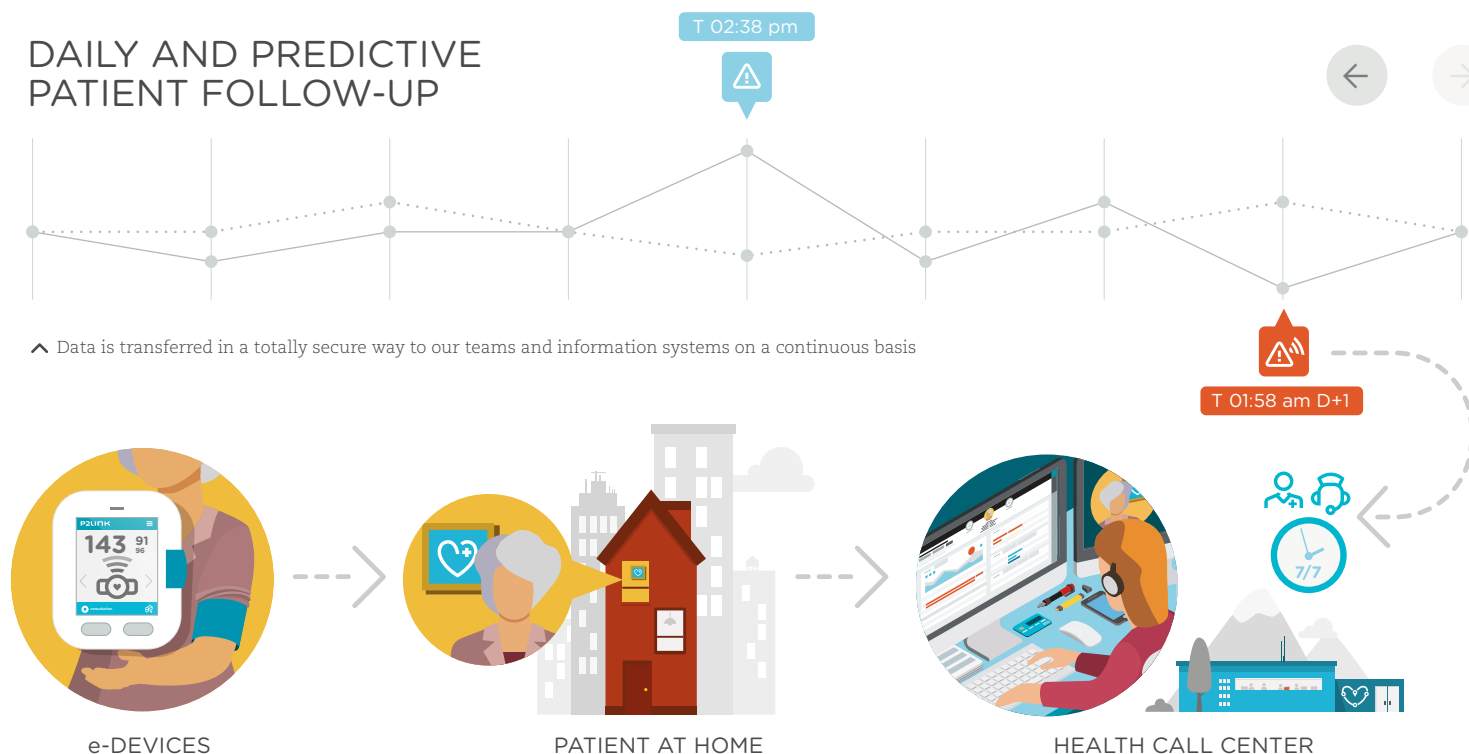
Connected Analysis
Continuous Analysis and feedback on multiple parameters surrounding chronic disease patients.

Predictive engine / Big data
Multiple-source predictive engine which helps select the best course of action for the management of chronic disease patients.

DAILY AND PREDICTIVE PATIENT FOLLOW-UP

T 02:38 pm

T 01:58 am D+1

⌃ Data is transferred in a totally secure way to our teams and information systems on a continuous basis

143 91

analysis 7/7

0.2
0.45
0.18
0.21
0.22

e-DEVICES
Secure self-monitoring

PATIENT AT HOME

HEALTH CALL CENTER

A predictive engine which analyses numerous indicators: social, psychological...

| Medical | Biometric | Social | Treatment-related |
| Psychological | Physiological | Biological | ... |

DESIGNED FOR A NEW HEALTH

innovation, algorithm, predictive engine, big data, connected medical devices...

AN ATYPICAL TEAM

First international research center for the development of advanced telemedicine services providing efficient solutions for the management of chronic diseases.

P2link develops totally intuitive, simple and scalable solutions through the use of the latest communication systems.

The design implemented from the very outset of the project aims to bolster acceptability and the sense of responsibility among all health stakeholders. **P2link SA** and its scientific and medical teams are at the forefront of a totally new PHARMA approach: **Digital Pharma** with a range of digital solutions in the R&D pipeline destined to the management of chronic disease patients requiring secondary prevention.

From its research centers in Grenoble and Boston, **P2link** develops each vector or biomarker in the same way as a new molecule (albeit faster) and in particular with an approach to clinical validation based on Evidence-Based Medicine (EBM) and Cost-Effectiveness Analysis (CEA) processes.

Mathematics, algorithm and big data

Our teams located in **Grenoble (5th mathematics hub in the world)** and **Boston (1st Pharma hub in the world)** design the e-Health and Digital-Pharma solutions of the future.

Software and e-Health equipment

Software and connected medical devices (**IoMT**, Internet of Medical Things) are designed with safety and ergonomics in mind and are adapted to each type of user: HCP or patient.

Patents and innovation

With every new concept and patent, **P2link** takes disruptive innovation one step further.

patient at home

A design encompassing a range of healthcare services

Services, software and connected medical devices (**IoMT**) designed by a multidisciplinary team of designers, engineers, researchers, physicians, mathematicians, etc.

$$\ln\frac{p(1\mid X)}{1-p(1\mid X)} = \ln\frac{p(1)}{p(0)} + a_1 + a_1 x_1 + \cdots + a_j x_j$$

$$p(1\mid X) = \frac{e^{b_1 + b_1 x_1 + \cdots + b_j x_j}}{1 + e^{b_1 + b_1 x_1 + \cdots + b_j x_j}}$$

$$L = \prod_{\omega} P(Y(\omega)=1\mid X(\omega))^{Y(\omega)} \times [1 - P(Y(\omega)=1\mid X(\omega))]^{1-Y(\omega)}$$

Simple, user-friendly and intuitive
Although our interfaces handle complex and extremely precise data, they are specially designed for our teams to work in the best possible conditions
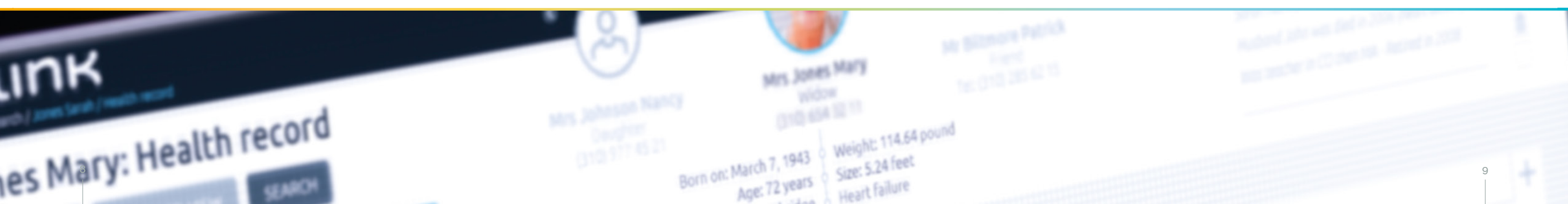
P2link, an international disruptive design team with an innovative and social vision in the fields of e-Health and Digital Pharma.

es Mary: Health record

VALUE PROPOSITION & COMPETITIVE ADVANTAGE

reduce your costs and improve the quality of care with a clear process

WITH OUR INNOVATIVE SERVICES

P2link aims to change the way in which insurers and payers perceive the cost and the management of chronic disease patients
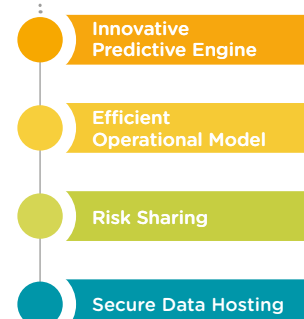
TARGET COST REDUCTION OF 10% TO 15%
focused on CHF and COPD[1]

P2link services reduce readmissions and length of stay by:
> Deploying non invasive remote health monitoring devices at the patient's home
> Collecting relevant data from those devices, patient surveys and additional patient information through other media
> Applying proprietary predictive models to identify early signals and predictors of health status deterioration
> Calling patients on a weekly basis by care managers to ensure proper treatment, to give advice and reminders

With these services, **P2link targets to reduce the costs incurred by CHF and COPD patients by 10% to 15%.**

- Innovative Predictive Engine
- Efficient Operational Model
- Risk Sharing
- Secure Data Hosting

PARTNERS

Microsoft

Microsoft Azure
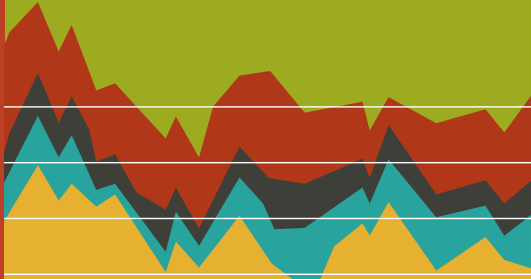
QUALCOMM LIFE
a Qualcomm company

CONNECTED "SMART CITY"
Integrated e-Health solution for the management of chronic disease patients at home
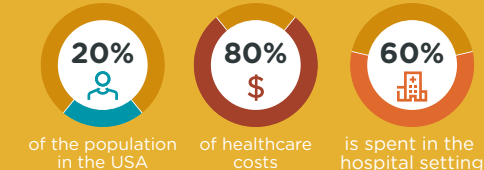
MONITORING & PREDICTION
Patient-centered analytical and predictive engine providing preventive management of their chronic diseases
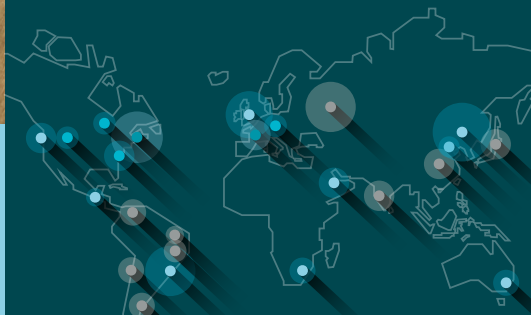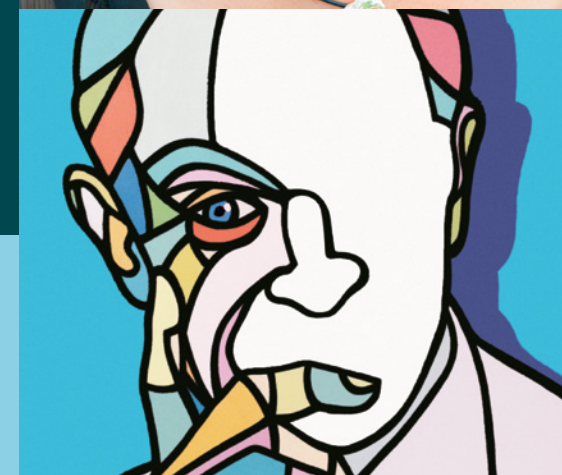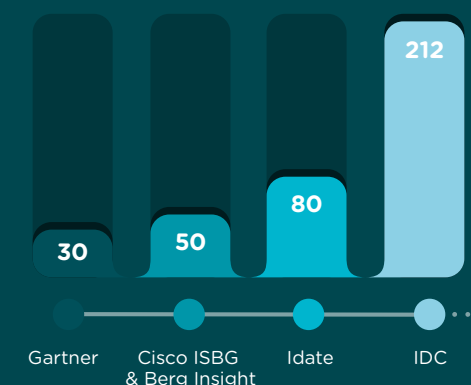
RESPONDING TO A GLOBAL NEED
An e-Health market striving to meet a worldwide challenge: reduction of costs

An e-health market linked to connected devices (IoT)
Estimation of the number of IoT (billions) in 2020[2]

Gartner	Cisco ISBG & Berg Insight	Idate	IDC
30	50	80	212

Costs of Chronic Diseases

20%
of the population in the USA

80% $
of healthcare costs

60%
is spent in the hospital setting

P2LINK
Technology enabled preventative care management

CARE TEAM
even more efficient and proactive with the help of P2link services

(1) CHF: Congestive Heart Failure; COPD: Congestive Obstructive Pulmonary Disease
(2) Source G9+: the new eldorados of the connected economy, 2013

P2link is a start-up structured around an international, experienced and renowned team. **P2link** is based in Boston, the international hub of innovative medicine, and Grenoble in France, a town which is famous for its contribution to mathematics. **P2link** offers new services built around state-of-the-art and highly efficient Telemedicine solutions. With the prospect of a 100% Digital-Pharma looming large, **P2link** is set to radically change the management of chronic diseases.

Thanks to 100% Cloud solutions and its extensive know-how, **P2link** offers insurers and healthcare providers Risk Sharing management for chronic disease patients.

Heart failure and respiratory failure are the two focal points of the secondary prevention programs set up by **P2link** in the context of patient management.

The solutions developed by **P2link** enable to detect the onset of decompensation at a subclinical stage and thus ensure that adequate measures are taken early so as to avoid hospitalization or reduce its duration.

P2LINK
Efficient Telemedicine Solutions

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