Contents

**Paris Region a global pioneer in e-health**

**General datas**
- What does e-health mean?
- Why use ICT solutions?
- A vigorous R&D activity in Paris Region
- Health in Paris Region
- The e-health market, a huge potential

**Paris Region's strengths in the e-health sector**
- ICT & Healthcare: challenges at the frontier of application markets, new technologies and new uses
- The importance of telemedicine in care organisation
- Digital technology to help the elderly stay in their homes

**Focus on a shared “ICT & Healthcare” initiative in Paris Region : Cap Digital, Medicen Paris Region and Systematic Paris-Region**
- Context and challenges
- Priorities and projects
- Stakeholders
- Projects

**Focus on M-health in Paris Region**
- Mobile phones in France
- The mobile phone penetration rate in Paris Region is now 128%
Paris Region a global decision-making centre

- Paris Region
- About Paris Region Economic Development Agency
- About Cap Digital
- About Medicen Paris Region
- About Systematic Paris Region

Spectacular applications by major healthcare players

- Diabeo
- Télégéria
- Orange Fast Facts – Healthcare
- Ophdiat

Highly innovative SMEs from Paris Region

- BePatient
- Bluelinea
- Cira
- Kayentis
- KTM Advance
- MédecinDirect
- Quinten
- Santech / Révad
- Unowhy
Paris Region

a global pioneer in e-health
General datas

What does e-health mean?
The healthcare industry is becoming increasingly linked to the digital industry. Together they are reorganising the day-to-day routines of healthcare professionals and patients. This application of information and communications technology (ICT) to health-related activities is commonly known as e-health.

Why use ICT solutions?
- to maintain people longer at home, in their preferred environment by increasing their autonomy, self-confidence and mobility
- to help maintain the health and functional capability of elderly individuals
- to promote a better and healthier lifestyle for individuals at risk
- to promote personal healthcare
- to organize healthcare at home, particularly for chronic diseases
- to increase security, prevent social isolation and help maintain a multifunctional network around the individual.

A vigorous R&D activity in Paris Region
- 79,543 researchers
- 7% of the EU workforce
- 45% of the French workforce
- 10,000 international researchers in public laboratories
- €14.5 billion spending each year, 9.7 billion of which is accounted for by private enterprise investments, i.e. 68% of total research spending in Paris Region.

Health in Paris Region
- In 2010 life expectancy increased by four months for both men (78.1 years) and women (84.8 years) compared with 2009.
- With 47,054 doctors, the average density is 405 doctors per 100,000 inhabitants, far ahead of the national average of 336.
- Paris Region stands out for its higher percentage of specialist doctors (57.21%) compared with the rest of France (51.25%)
Concentration of doctors in Paris Region

Paris Region is home to numerous health centres. The region had 300 active centres as of 1 January 2010, employing more than 9,000 professionals, 91 private medical centres, 51 private dental practices, 133 multipurpose centres (dental + medical) and 22 nursing care centres.

The e-health market, a huge potential

The e-health market is expected to grow considerably as a result of targeted initiatives by public authorities. E-health is a major value creator in terms of development of industrial solutions, innovative services and export potential. It will also reduce healthcare expenses by developing home hospitalisation as an alternative to the more costly traditional hospitalisation (and introducing teleconsultations or teleradiology to save the cost of patient transfers. Lastly, e-health leads to a substantial improvement in the quality of care provided to the population.

Close collaboration are required between a broad array of stakeholders, from academics and manufacturers to researchers and practitioners.
Paris Region's strengths in the e-health sector

- Research and industry calls for proposals for ICT solutions for healthcare and independent living have structured collaborations between laboratories and companies
- Huge potential of innovative SMEs
- Interests of large groups of services (banking and insurance) as technology integrator
- Involvement of large industrial groups on these topics

Paris Region has what it takes to give this sector **a major competitive edge**. In addition to its pharmaceutical industry, it is home to an increasing number of leading IT, electronics and telecommunications companies who are developing innovative solutions to improve patient care and wellbeing.

ICT gives rise to new methods of patient care and health management, from the shared management of a patient’s records to nanotechnology research and the deployment of telemedicine solutions. In fact, traditional manufacturers in the healthcare sector are no longer the only players breaking new ground. Numerous startups and digital players such as telecom operators have proved that they too can provide appropriate solutions to the challenges faced by France’s healthcare system.

This reality represents a major opportunity to help improve patient wellbeing while freeing up practitioners' time. Apart from the enormous growth potential, these new practices will bring about significant reductions in healthcare expenditure, especially when it comes to costly illnesses.

To meet the healthcare challenge, in 2009 public authorities adopted a **regulatory telemedicine framework** (the Hospital, Patients, Health and Territory Act), which was followed by calls for projects in this sector.

The definition of new healthcare practices under France’s "Hospital, Patients, Healthcare and Territories" paved the way for e-health development. The cornerstone of the act was the creation of regional healthcare agencies (Agence Régionale de Santé) to organise the healthcare system at regional level.

The act also underscores the importance of the patient, upon whom these healthcare measures are focused; it supports their rights and offers them a new range of services.

**The large number of calls for projects**, especially from the competitiveness clusters Cap Digital, Medicen and Systematic, is a **financing opportunity for start-ups or SMEs** offering innovative solutions for hospitals, welfare organisations, nursing homes and medical research.
ICT & Healthcare: challenges at the frontier of application markets, new technologies and new uses

In 2009 it became clear to the three competitiveness clusters, Systematic Paris-Region, Medicen and Cap Digital, that these issues were increasingly galvanising their communities into action, and that together they had the skills and technologies to develop and deploy “e-health” solutions.

Thus the ICT & Healthcare initiative came into being and was organised into a shared road map.

Ten of the funded R&D projects are the result of the partnership between the three clusters. These projects are: 3D-VOR, ADOC, arHOME, e-Thérapie, Intense, Picado, Pramad-2, RéVAD, StreetLab and Sympad.

The importance of telemedicine in care organisation

“We are going to be developing telemedicine tools that can provide a very effective response to the needs of rural populations. Telemedicine is the future,” said the French President in 2009, when presenting the five-year eco-responsibility plan for telehealth deployment in France.

Telemedicine is the use of information and communications technology (ICT) for patient care. These new medical practices make it possible to provide healthcare and exchange relevant medical information remotely.

Telemedicine is a genuine added value in that it helps with the care provided for chronic illnesses (primarily thanks to a significant percentage of medical consultations taking place online) and will play a key role in restructuring the health and welfare landscape in France by offering a practical solution to the lack of rural medical care.

Digital technology to help the elderly stay in their homes

With the ageing of the population in particular, e-health is a challenge of scale.

The region currently has:

- 56,450 places in nursing homes (EHPAD)
- 644 nursing homes
- 440 retirement homes
- 231 facilities for Alzheimer’s patients
The substantial amount of public financing that goes into the e-health market implies a particular responsibility on the part of public authorities, particularly when it comes to guidelines for stakeholders in markets considered a priority. Initiatives include calls for projects to "develop digital services for healthcare and independent living", which are aimed at spotlighting economic models in the e-health sector. As a result of network computing and the huge increase in the number of health-related smartcard terminals, many companies are investing in high-performance solutions to improve the daily care of chronic illnesses and the elderly remotely.

**600,000 households will use homecare services by 2030**

Paris is home to a high number of elderly people living alone. Proportionally they are more numerous in Paris than in the rest of the region or in metropolitan France. Furthermore, they have substantial purchasing power: almost a quarter of retirees in Paris are former executives. As a result, they are more likely to use homecare services and remain in their own homes.

The households starting to use homecare services are expected to generate the need for an additional 40,000 employees by 2030, an increase of 18% in 23 years. This would be equivalent to an increase of 18,000 full-time employees working exclusively in the homecare services sector.

**Age and dependence of Paris Region residents**

- One in five Paris Region residents aged 60 or over by 2020
- Number of potentially dependent elderly people expected to increase by 24.5% by 2020
- One third of potentially dependent Paris Region residents lived in assisted care in 2005
- Percentage of dependent people living in assisted care expected to decline by 2020

![Pyramide des âges de l'Ile-de-France et de la France au 01-01-2007](image)

*Source: Niveaux d'estimation de population*
Focus on a shared “ICT & Healthcare” initiative in Paris Region

Cap Digital, Medicen Paris Region and Systematic Paris-Region: a shared “ICT & Healthcare” initiative to create value and provide innovative responses to a region’s societal challenges

Context and challenges

Healthcare has become one of the main concerns of developed societies due to ageing populations, the emergence of new health risks at global level, the reform of healthcare systems, the desire to keep patients at home and improve the quality of life and care, and changes in medical demographics.

As a result, it is critical to break new ground in the field of healthcare and medico-social issues by drawing on the opportunities offered by information and communications technology (ICT). This is the goal of the initiatives being led in the field of e-health.

There are many industrial and economic challenges associated with the development and deployment of e-health solutions. Not only are there the issues of competitiveness and how to organise stakeholders, but also the challenges of safety, acceptability and the financing of new e-health services.

In 2009 it became clear to the three competitiveness clusters, Cap Digital, Medicen Paris Region, and Systematic Paris-Region, that these issues were increasingly galvanising their communities into action, and that together they had the skills and technologies to develop and deploy “e-health” solutions.

Thus the ICT & Healthcare initiative came into being and was organised into a shared road map. This road map has been steering Paris Region's ICT & Healthcare ecosystem since 2009. It has contributed to the development of local stakeholders and led to the launch of a substantial number of major projects for the sector.
Priorities and projects

Cap Digital, Medicen Paris Region and Systematic Paris-Region have organised their initiatives and innovation projects into four key strands:

- Strand 1: Knowledge management, modelling and simulation
- Strand 2: Digital imaging
- Strand 3: Medical devices
- Strand 4: E-health and telemedicine

Between 2009 and 2011, fifty innovation projects related to the above strands were accredited by the clusters and more than €80 million was invested in R&D.

Stakeholders

The ICT & Healthcare initiative consolidates the expertise of the three clusters’ ecosystems by first of all bringing together professionals in the field from more than 400 companies and research laboratories. These include:

- Companies specialising in medical devices (e.g. Sorin Group, Neuromedics (MXM Group), Axon’, Bluelinea, BVS Systems...)
- Companies specialising in e-health and telemedicine services (e.g. Medecin Direct, DirectMedica, Assistéo, RéVAD, Adama Conseil, Apologic, UnoWHY, Kiolis...)
- ICT companies providing the required technological building blocks (e.g. Cira, Kayentis, 3Dplus, Voluntis, FSI)
- Public research laboratories (e.g. CEA, INSERM, INRIA, INRA, Université Technologique de Troyes, Université Technologique de Compiègne, Université de Reims LIMSI (CNRS), LIM&Bio (Université Paris 13)...) 
- Healthcare providers: hospitals and clinics, doctors, nurses, nursing homes, etc. (e.g. Georges Pompidou Hospital [HEGP], University Hospital of Rennes [CHU Rennes], Hôpital Broca (AP-HP), Hôpital Necker (AP-HP), Pôle Allongement de la Vie Charles Foix...)
- Solution integrators (e.g. Altran, Consort NT, Atos Origin...)
- Communications operators (e.g. Orange, SFR)
- Areas (e.g.: Communautés d’agglomérations Saint-Quentin-en-Yvelines, Agence de Développement du Val-de-Marne, ...)

8
The initiative also involves the following healthcare-related bodies:

- The National Reference Centre for Home Healthcare and Independent Living (CNR-Santé)
- The Paris Region Health Agency
- The General Council of Industry, Energy and Technology

with financial support from:

- The Ministry of the Economy, Industry and Employment
- *Investissements d’Avenir* ("Investing for the Future" government-sponsored programme)
- Local authorities

**Projects**

Ten of the funded R&D projects are the result of the partnership between the three clusters. These projects are: 3D-VOR, ADOC, arHOME, e-Thérapie, Intense, Picado, Pramad-2, RéVAD, StreetLab and Sympad.

- technological development projects
- experimental and deployment projects

**3D-VOR - 3D Virtual Operating Room**

*Call for projects: FUI 12*

*Originator: Serious Game Research Lab*

*Partners: KTM Advance, Instinct Maker, Cyanide Studio, CHU Toulouse.*

*Description: First internet-based serious simulation game to train operating theatre staff in medical-risk management and adverse-event prevention. 3D Virtual Operating Room is a project to develop an internet-based, multilingual, serious simulation game, available through a browser. The game focuses on the management of medical risks in the operating theatre and targets all healthcare players who are involved with the patient from the time he enters the operating theatre to the time he leaves it. The project's originality is that it offers collaborative learning to all professionals in the operating theatre area: anaesthetists, surgeons, nurses, radiographers and healthcare supervisors. Its goal is to produce an interprofessional learning tool to improve the quality and safety of medical practices by enhancing the skills acquired by experts in the performance of their duties and capitalising on their professional experience.*
**ADOC (FEDER 5)**

**Originator:** LL TECH  
**Partners:** Intrasense, INRIA (Equipe Galen), Institut Curie, APHP – Hôpital Tenon – Service de pathologie  
**Description:** The project is a translational research programme aimed at developing a device that would act as an intraoperative diagnostic aid in cancer surgery. An imaging scanner will be developed based on LLtech’s Light-CT scanner that can produce digital histological images. A pathologist would study these images and confirm whether the surgeon should proceed with the removal of all cancerous areas and thus avoid further surgery.

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**ArHome**

**Call for projects:** FUI 12  
**Originator:** Apologic  
**Partners:** Domidom, Chèque Domicile, CEV Group, Bemobee, Adama Conseil, Institut TELECOM ParisTech, ESIEE Paris.  
**Description:** A package focusing on information exchange and services aimed at providers and customers of homecare services, home medical care and social welfare. The Arhome project is supported by the sector's major stakeholders and offers two key benefits. First of all, it authorises the exchange of information and standardises its transfer between parties so that new services can be offered to all of the sector's customers and stakeholders. These new services will lead to paperless payments, for example, and support the emergence of new resources that are compatible with the sector's special characteristics (multiple requirements, low margins, and so on). Secondly, it will develop an automatic software agent called a “butler” that will gather all the information required by the senior citizen and his or her family and reproduce it when needed in a very simple and intuitive way.

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**e-Thérapie**

**Call for projects:** FEDER 5  
**Originator:** Tekneo  
**Partners:** Voxler, INSERM, LIMSI-CNRS, CHU Pitié-Salpêtrière (AP-HP)  
**Description:** Therapy-based mobile, disruptive, eco-friendly and immersive serious games aimed at combating communication disorders, such as phobias and speech difficulties. The innovation project brings together two seemingly disparate concepts: gaming and cognitive remediation/re-education. It is the result of the pairing of the healthcare and video games sectors.  
The goal of this project is to allow patients with social phobias, such as speech problems, to be cared for in their own homes or in a care facility more or less on a long-term basis and as quickly and effectively as possible. It uses a programme of cognitive remediation and/or re-education to supplement non-pharmacological treatment and traditional medico-social care.
Intense
Call for projects: Major Competitiveness Cluster Project (under the Investissements d’Avenir programme)
Originator: Sorin Group
Partners: Sorin Group, MXM, 3Dplus, CEA, INSERM, INRIA, INRA, HEGP, CHU Rennes
Description: The goal is to develop an innovative, interoperable neurostimulation electronic platform for the treatment of heart failure, designed in such a way as to be suitable for other applications, such as the treatment of eating disorders (obesity). The challenge is to create a new biomedical sector in the rapidly growing field of neurostimulation, for which France has all the assets and which represents a real investment for the future.

Picado
Call for projects: FUI 12
Originator: Altran
Partners: Altran, Axon’, Voluntis, Bluelinea, FSI, INSERM, Université Technologique de Troyes, Université de Reims
Description: Picado’s goal is to develop new technologies for interoperable devices, information processing and IS architecture, among others, and have these approved for large-scale deployment in Paris Region and Champagne-Ardenne. The context for their use is wide-ranging: chronic illnesses, distribution of technology to the general public, patient independence, economic models, medical progress and regions lacking medical care.

Pramad 2
Call for projects: FUI 11
Originator: France Télécom – Orange Labs
Partners: Robosoft, Domolib, COVEATech, Wizarbox, UPMC-ISIR, INRIA Grenoble, Hôpital Broca (AP-HP)
Description: Robotics platform for home care and assistance. The goal of the Pramad project is to develop an environment using service robotics that is easy to set up and will give people a sense of security. The robot is autonomous but can also be operated by a monitoring centre.

RéVAD
Call for projects: e-Health 1 (Investissements d’Avenir)
Originator: Euxenis
Description: RéVAD – Réseau Vivre A Domicile (Living at Home Network) – seeks to demonstrate that by addressing the issue of keeping people at home and promoting independent living through wellbeing and prevention, i.e. taking a non-stigmatising
approach, a package of services can be created that is based on an economically viable model of private financing and is attractive and sustainable for the e-Health sector.

**StreetLab**

**Call for projects**: Platform 2 - DGCIS (General Directorate for Competitiveness, Industry and Services)

**Originator**: Institut de la Vision

**Partners**: Université de Paris 6 – ISIR, Université de Paris 6 – L2E, Université de Paris 6 – LAM, Institut de la Vision, CSTB, CNRS-LAC.

**Description**: Platform for assessing products and services for the visually impaired. The project’s goal is to help manufacturers develop products that meet the needs of end-users by using simulation, modelling and monitoring tools.

**Sympad**

The SYMPAD project, accredited by Medicen Paris Region, has been selected for funding under the first call for e-health projects. It was originated by MédecinDirect and aims to provide a new remote monitoring system for patients on medication and living at home. SYMPAD is the French acronym meaning “system for medical monitoring of patients in pharmacy or at home”. It uses the latest technologies to ensure the follow-up of chronic patients. SYMPAD is based on the setup in pharmacy of wireless medical devices such as oxymeter, tensiometer, glucometer etc, linked to a box which analyzes and sends information to MedecinDirect platform and/or to General practitioner.
Focus on M-health in Paris Region

Mobile phones in France
- 59 million SIM cards in circulation, representing a penetration rate of 95% (out of 62 million inhabitants).
- Most are subscriptions: 70% versus 30% pay-as-you go.
- 1.8 million SIM cards used solely for data (Internet subscription), a figure that has doubled in one year.
- In September 2009, 20.8 million customers in France, or 35% of the population, were using a multimedia service (Internet, MMS) on their mobile phones.
- 15.4 million 3G subscribers, representing 26% of the total number of subscriptions (an increase of 65% in one year).
- For mobile phone operators the last quarter of 2009 generated €4.8 billion, of which €3.9 billion was for voice and €975 million for data (Internet). What is noteworthy is that the data percentage increased by 20% in one year while the voice percentage declined 2% during the same period.
- In 2009, **33% of telephones sold had a touch screen**. According to the same source, smartphones account for 15% of handsets in France.

**Summary:**
- Not surprisingly, Mobile Internet is increasing rapidly, with 3G subscriptions now accounting for 26% of all subscriptions, a 65% increase in one year. If this pace continues, almost 43% of subscribers will have Internet access on their mobile phone by the end of 2010.
- This explosion is due to more affordable unlimited data plans and the widespread use of touchscreen handsets and other smartphones.
- Combining sales of Orange and SFR, there are between 2.5 million and 3 million iPhones in circulation in France.

The mobile phone penetration rate in Paris Region is now **128%**
The mobile phone penetration rate in France was 90.1% in March 2009, according to ARCEP (the French Telecommunications & Posts Regulator).
Three French regions have a penetration rate of more than 100%:
- Paris Region (128.1%)
- Provence-Alpes-Côte-d'Azur (104.1%)
- Corsica (100.1%)
(meaning that some people have more than one mobile telephone.
In other regions of France, the penetration rate has fallen by at least 85%.)
Paris Region

a global decision-making centre
Paris Region

- 11.7 million inhabitants representing approximately 19% of the French population
- N°1 EU region for GDP, accounting for 4.7% of the EU total and 28.9% of French national GDP
- Dense ecosystem of 800,000 SMEs, generating 57% of all jobs in the region
- Leading French region in terms of incoming foreign businesses

As the number one region in Europe and the second in the world in terms of the number of Fortune 500 companies (ahead of London and New York, and just behind Tokyo), Paris Region is home to practically all the major French industrial groups, all international market leaders in their sector. It is also the world's second city for international organisations (far ahead of London and New York and just behind Brussels).

Paris Region is one of the top three destinations in the world for industrial and service sector locations. It ranks second in Europe for strategic functions, after Catalonia. It is also the top location for service centres, thanks in particular to the business services sector (IT market reports and services).

The sheer diversity of the Paris Region economy sets it apart from other major cities in the world. Cutting-edge sectors such as biotechnology, nanotechnology, wireless services and 3D graphic animation exist alongside more traditional sectors like the aerospace and automotive industries.

Paris Region's multi-specialist economy is unique in Europe, with just under ten world or European-class high-tech clusters, fostered by France's national competitiveness cluster policy. In addition, the government has increased its support for the sectors of excellence, notably through increased research funding, greater international visibility and a global-reaching partnership between all the research players in the Region.
About Paris Region Economic Development Agency

Founded in 2001, the Paris Region Economic Development Agency contributes in attracting new investments into the region, which will bring new growth and generate new jobs. The Paris Region Economic Development Agency has developed a comprehensive range of services intended for companies that wish to settle and develop their business in the Paris Region: the search for premises and for employees, fiscal and legal consulting, the identification of commercial and R&D partners, promotional initiatives before the media, as well as any useful day-to-day information.

In 2010, the Paris Region welcomed 243 projects (creations, expansions and transfers) that will ultimately provide over 8,400 jobs to the Paris Region’s economy. In all, the region hosts over 30% of all foreign companies settling in France every year.

For further information:
www.paris-region.com
http://twitter.com/ParisRegion
About Cap Digital

Established as a non-profit organization, Cap Digital is the French business cluster for digital content and services. We are trusted by over 700 valued members: 620 innovative SMEs, 20 major corporations, 50 institutions of higher education and 10 capital investors.

Cap Digital aims at promoting the Paris Region as one of the world leaders in digital content and services, from an industrial as well as a strategic point of view. Fostering R&D, helping companies to expand, networking our members and showcasing them throughout the world, are some of the activities we undertake to support the creativity and competitiveness of a sector that represents a € 300 billion world market.

Cap Digital’s international actions:

- Cap Digital organize Futur en Seine, the digital world festival, an international event held in Paris and the Ile-de-France Region. http://www.futur-en-seine.fr/en/
- Collaboration with California under the “Digital Sister Cities” agreement between San Francisco and Paris, which has yielded concrete projects such as “Sebastian”.
- Delegations of companies have toured the USA, Canada, China, South Korea, Japan, Israel, Brazil, etc.

Cap Digital’s actions with other European clusters:

- Collaboration with local clusters in England, Italy, Spain, The Netherlands, Germany, Austria, Finland and Denmark via a common European think tank.
- Part of the “ImMediaTe” European project that counts four other clusters in Italy, Spain, Malta and The Netherlands.
- A founder of REDICT, an inter-cluster network comprising Amsterdam, Berlin, Bucharest, Copenhagen, Dublin and Paris.
- Part of the INNET program: organisation of two INNET missions in Berlin (open source / digital education).

For further information:
http://en.capdigital.com
info@capdigital.com
About Medicen Paris Region

**Medicen Paris Region** facilitates the transfer of innovation to industry, the market and patients in human healthcare sectors (prevention, diagnosis, treatment and related technologies). It also contributes to training for the jobs of tomorrow and aims to increase company competitiveness so that the Paris Region becomes one of the global centres for translational medicine.

This ambitious program integrates eHealth methods that wishes to promote concepts and advanced hardware/software technologies, to apply them for the emerging domains as: Knowledge Management Systems, Medical devices/instrumentation, Image Processing, Bioinformatics applied to systems biology.

News paradigms generated by such methods are source of innovation: key elements in business development for SME’s. MEDICEN PR contributes to integrate e-Health methods within collaborative R&D projects, leading to technology transfers from research institutions and generating to new businesses.

Next generation of eHealth business need to take advantage of modern information and distributed systems to meet the emerging demands in healthcare environments.

As a result governments and private sectors are investing on healthcare information technology infrastructures to reduce huge costs of the existing systems and improve the quality of the service to patients.

At MEDICEN PR, Health informatics (eHealth) is an emerging field which embodies a variety of techniques in information and knowledge management, data mining, decision support systems, web services, and security and privacy. Therefore, researchers with multidisciplinary research interests from these fields need to collaborate in order to advance the state of the art in eHealth.

For further information:
About Systematic Paris Region

The French SYSTEMATIC PARIS-REGION competitiveness cluster brings together more than 600 key players in the Paris region working in the field of software-dominant systems and focusing on markets with a strong societal dimension. Based on 6 key areas - Automotive & Transport, Free and Open Source Software, Digital Trust & Security, Smart Energy Management, Systems Design and Development Tools, Telecoms - the goal of the cluster is to develop the regional economy and boost the competitiveness by leveraging innovation, training and partnership opportunities. Since 2009, Systematic deploys its technologies towards new markets, including "ICT & Sustainable Cities" and “ICT & Health” which are at the heart of the 21st century challenges and whose development increasingly relies on the know-how of Systematic members.

Since 2005, Systematic has developed 329 R&D projects representing a total R&D investment of €1.5 billion including €550M funded by the French Government, its economic development agencies and from the Paris-Region local authorities.

For more details:
www.systematic-paris-region.org
Spectacular applications
by major healthcare players
Diabeo, presented by Professor Charpentier, is an innovative solution for monitoring diabetic patients using cutting-edge Internet and mobile-phone technologies. Diabeo, which proved a huge success with its first users (doctors and patients alike), is designed to optimise diabetic care. In September 2011, Sanofi, Voluntis and CERITD (a French non-profit diabetes association) formed a partnership to develop and distribute Diabeo in France.

About Guillaume Charpentier
Department of Diabetes and Endocrinology, Centre Hospitalier Sud Francilien, Corbeil, Paris, France.

Dr Guillaume Charpentier is Head of the Department of Diabetes and Endocrinology at the Centre Hospitalier Sud Francilien, Corbeil, Paris, France. Dr Charpentier’s academic and professional achievements include obtaining a Doctorate in Medicine from Paris 5 University (1978) and a Habilitation in Internal Medicine and Cardiology (1980), and becoming a Chef de Clinique Assistant des Hôpitaux de Paris (1978–1982). He is also a certified Endocrinologist (1980), Diabetologist (1984), and Clinical Pharmacologist (1983).

Dr Charpentier’s clinical research interests include the genetics, and treatment of diabetes mellitus and its complications. Dr Charpentier has previously conducted work on silent myocardial ischaemia and cardiovascular risk scores. Dr Charpentier and his team have developed algorithms for flexible insulin therapy in type 1 diabetes mellitus (T1DM), and created a model to evaluate blood glucose response to meals in type 2 diabetes mellitus (T2DM). He is involved in developing telemedicine devices for T1DM and T2DM, and pump therapy research. He also leads the Diabeloop French Consortium for the closed loop system.

Dr Charpentier has authored over 100 papers, and has been the Editor of Diabète Éducation since 1990 and has been Vice-President of the French Diabetes Association (1999–2006). Dr Charpentier is a Board Member of the SFD (Société Francophone du Diabète), and President of CERIDT (Centre d’Etude et de Recherche pour l’Intensification de Traitement du Diabète) – a non-profit organisation devoted to diabetes clinical research.
Multiple medical specialties

**Télégéria** project at European Georges Pompidou Hospital in Paris.
The new technologies will enable patients to speak directly to a practitioner located elsewhere. In fact, that is the purpose of the solution marketed by Cisco and used by the geriatric department at Vaugirard Hospital in Paris, linked to specialists at Georges Pompidou Hospital. Instead of having to travel, the elderly patient sits in a fairly traditional consulting room at his own hospital. A nursing aid is with him and he sees the specialist on the screen. The specialist has access to the patient's records and receives on his own screen images or data from tests carried out by the patient’s local team. Healthcare professionals adopted this new tool within a few months of use. Almost 16 specialties have been requested at Georges Pompidou Hospital, while at Vaugirard Hospital, two care assistants have become telemedicine assistants.

**About Pierre Espinoza**

**Pierre Espinoza** practises in the Emergency Division of the Telemedicine Network at Georges Pompidou Hospital in Paris. A doctor of internal medicine, gastroenterology and emergency medicine, he has coordinated research and trials on using telemedicine for emergencies and in geriatrics. He will talk about the influence ICT has had on medical practice using the Télégéria projects as an example. The first ADSL or 3G Télégéria is a virtual network between hospitals and assisted-care facilities for the elderly that produces specialised, remote consultations over a secure network. The second High-Definition Télégéria or HealthPresence is a telemedicine platform developed by Cisco. This platform uses a high-speed Internet connection to link one or several hospitals via a high-definition video conferencing system.
Orange Fast Facts – Healthcare

Key Facts

- Orange has been equipping hospitals and clinics with communication services for over ten years
- Today, Orange is a global leader in the provision of healthcare services
- Orange provides healthcare services in France, Poland, Romania, Spain, the UK, US and in Africa - Senegal, Egypt, Madagascar, Cameroon and Kenya in particular
- Orange set up its Orange Healthcare division in 2007
- eHealth is a key pillar of the Conquest 2015 strategy: we want to expand our healthcare offering across more territories, particularly emerging markets where healthcare is a key issue. As a socially responsible Group, we want to improve traditional healthcare systems to the benefit of the whole population
- Orange provides healthcare professionals and patients alike with products and services that enable the secure access and seamless transmission of sensitive medical information
- Orange targets three segments with its product portfolio:
  - **Health professional services** – Orange focuses on the traditional players in the healthcare sector like hospitals, clinics, doctors’ offices or independent medical practitioners. Our services can interconnect infrastructures, enabling improved coordination, cooperation and fluidity of information exchange between all of these players.
  - **Health management** – Orange focuses on aspects of healthcare outside the usual treatment environment, at home for example. Our services allow patients to stay in permanent contact with healthcare professionals, making it possible to provide the highest quality care to a wider population and offering more choices in care. ‘Joining up’ traditional and non-traditional healthcare environments, enabling high quality care and condition management within the broader community, giving patients more choice over their care provision
  - **Prevention and wellness** - Preventing health conditions before they arise. ‘Joining up’ people to the tools and information they need to manage their own health and well-being in the course of their everyday lives – whenever they need to, wherever they are
- Another key area for Orange is the management of chronic diseases (like telemonitoring for renal failure or cardiac patients, for respiratory disease or diabetes)
- Orange has teams of researchers around the world that are working on healthcare innovations and four ‘skill centres’ with a team of experts working on solutions for customers in healthcare. Our research units dedicated to healthcare, in Meylan in France and San Francisco in the US, represent a true competitive advantage.

Orange services:

- **Connected hospital** – available in France since 2008, Poland (2009) and Columbia (2010)
o A unique integrated network for hospitals with direct access to information for the
health and administrative staff and access to a ‘triple-play’ service in the patient’s room
o Benefits
  ▪ secure access to patients’ records through a variety of mobile devices (health professionals)
  ▪ access to TV/VoD, internet, phone, radio and games (patient)
o E.g. Centre Hospitalier de Villefranche sur Saone (France); Polyclinic of Picardie (France)

• Health Gateway – available in the UK since 2010
  o SMS reminder for medical appointments
  o saves time, cuts communication costs and improves the customer experience by sending
    personalised messages to the mobile

• Smart Numbers – available in the UK since 2010
  o Gives callers instant access to the best placed person or team available, providing
    patients and healthcare workers with the ability to reach the right person, first time
  o Brings a greater effectiveness: the healthcare personnel in your teams are easy to reach
    and gives a better quality of service: you answer all calls, you customise the calling
    service, you direct your patients to the person best placed to answer their queries, more
    quickly.

• Cardiac Remote Monitoring System (CRM) – Currently trialling, launch planned for Q1, 2012, in
  European countries first
  o A global remote monitoring solution for cardiac patients in partnership with the Sorin
    Group
  o It measures information from the patients’ defibrillator and sends it to the health
    professional (avoiding hospital appointments, reducing moves, allowing regular follow-up).
    Sorin is a key area of growth (in the field of chronic disease remote monitoring)

• Doro device – available in UK, France, Poland and Spain since 2009
  o Special mobile device for the elderly: a keyboard with wide and spaced keys, an easy to
    read colourful screen with wide letters and a simplified menu with main functions only
  o The new version of this mobile will be launched in October, 2011

Case Study

‘Healthe System’ for diabetes in Austria (launched in 2010)

In Austria, a new health service has been launched by Orange in partnership with Alcatel-Lucent to
improve the daily lives of those affected by chronic illnesses. This service is capable of taking
measurements, such as blood pressure or blood sugar levels, that are then automatically encrypted
and sent via mobile phone to a central service platform. A system of SMS or e-mail, alerts the user if
a measurement is missed or the readings are outside of normal parameters. Health data is available
for the patient himself and for people defined by the patient, for example the doctor, medical attendant or relatives. The therapeutic success becomes stronger supported by the ‘Healthe System’.

mHealth in Africa

- In Africa, Orange partners with NGOs and healthcare players to provide m-health and e-health solutions
- Orange’s m-health solutions aim to reach people in remote areas and increase access to care and medical information and promote prevention

Key Facts

- In the Africa and Middle East region the Orange group is present in 23 countries serving almost 60 million mobile customers
- A significant proportion of Africans have limited access to television, radio or other media, but around 50% have access to a mobile phone

Orange services in Africa:

- Ivory Coast
  - A service (called 712 Pharmacies de garde) based on SMS information in Ivory Coast allows people to locate the nearest duty chemist by dialing 712 from their mobile telephone to receive a list of nearby pharmacies that are open. This facilitates the access to care from local populations.
  - Orange works with a partner that provides information about chemists’ availability.

- Senegal
  - SeneMRS is an epidemiological surveillance and training service in collaboration with Merieux Foundation. The solution allows the Health Ministry to collect health data in the field, and so improves prevention and care when epidemics appear.
  - Orange supports this initiative through its Corporate Social Responsibility programmes and will support the Senegalese government project during the pilot phase.

- Madagascar
  - Tele-consultation in oncology (i.e., breast or cervical cancer). This solution is based on teleconferencing that allows oncology clinicians to send slides to anatomicopathologist for real-time diagnosis. There are few anatomicopathologists in Madagascar and the service provides a better and quicker management of patients suffering from cancer.

- Kenya
  - Today counterfeit drugs represent up to 30% in developing countries according the World Health Organization.
Orange has partnered with mPedigree – an SMS-based tracking solution to fight against counterfeit drugs, (partnership announced April 2011)
  - The initiative involves printing a unique verification code, which is hidden behind a scratchable surface layer, on each packet or bottle of medicine. Patients can then submit this code via SMS in order to automatically check the authenticity of the drug against a database managed in Europe by mPedigree’s partners

- Wireless Reach Initiative: a stock e-monitoring solution that has been launched in Kenya in 2008. This solution allows healthcare professionals to manage their medicine stock in real-time as the entire command and delivery process is automated. Patients can take advantage of a regular treatment because healthcare centres have the stock they need.

- Egypt & Botswana
  - pilot phase – Tele-dermatology services
    - Enables remote doctors to provide diagnosis and treatment advice.

**Case Study**

**Apollo Bramwell Hospital – Mauritius**
(Implementation of a Medical-Grade Infrastructure for Convergent Voice, Data, and Video transport by Mauritius Telecom)

- First hospital in the Sub-Saharan region to be equipped with a state-of-the-art convergent infrastructure deployed by Mauritius Telecom and its technology partners
- The infrastructure is built on a medical-grade infrastructure providing resiliency, responsiveness and security to the users of the network
- The concept is based on “Connected Hospital” that provides health care information which is easily accessible to care givers and patients anytime and anywhere and on any device. The robust network allows transfer of video files and heavy scanned images easily for remote diagnosis
- A second phase of the project will integrate latest innovations from Orange Labs, for example the bedside terminal. The hospital will run as a ‘medical tourism’ business and our solution will easily integrate to provide five-star room service facilities including video on demand, IPTV and Internet browsing
The Paris hospital network has also set up a telemedicine network to screen for diabetic retinopathy. OPHDIAT screens for diabetic retinopathy using digital photographs of the back of the eye. The photographs and relevant medical data are produced at screening sites and then transmitted remotely to an image-grading centre where they are graded by an ophthalmologist. A report is then returned to the screening site.

About Ali Erginay, MD

I have been a full-time doctor in the ophthalmology department at Lariboisière Hospital since 2004. I specialise primarily in medical retinal-vitreous pathology and retinal imaging. My main activity is providing ophthalmologic care to patients with diabetes and medical conditions of the retina – apart from diabetic retinopathy – and treating conditions such as retinal vasculopathy, age-related macular degeneration and inflammation of the retina. I also participate in various national and international clinical trials related to retinal vascular disease.

I am in charge of the Ophdiat telemedicine network's image-grading centre. In collaboration with the Mathematical Morphology Centre of the Paris School of Mines (Ecole des Mines), I am helping to develop software that will automatically grade images of the back of the eye.

I am a member of the French Ophthalmology Society, EASDEC (European Study Group on Diabetic Eye Complications), Euretina, MGSD (Mediterranean Group for the Study of Diabetes), the American Academy of Ophthalmology, and ARVO (Association for Research in Vision and Ophthalmology).
Highly innovative SMEs

from Paris Region

These SMEs are also members of

the Paris-based clusters of excellence in the e-health sector:

Cap Digital, Medicen Paris Region and Systematic Paris Region
INNOVATIVE PATIENT CENTRIC SOLUTIONS

Each patient should have the skills to promote and restore his own health and quality of life. This implies to gather the patients around a participating structure in order to provide collaboration and knowledge transfer.

This technical solution will merge expertise, experience and patient education. Among the chronic patients, some of them have developed a broader network, and have implicated themselves more than average: they are expert patients. We will establish partnerships with them to animate the platform, to promote patient education (in particular by exchanging with ‘younger’ patients) and to help putting in place high added value services.

Patients will have the ability to implicate in the process their own referral physicians if they want to.

These services developed by the company (and/or integrated with partners) are structured and offered via our platform, including innovating exchange solution, information, training, decision making solutions, remote medicine and evaluation. They will be linked to subscription or delivered « à la carte » directly to patient communities, but more importantly through patient associations and healthcare networks.

Other programs will be developed to help health insurance companies, healthcare industrials, homecare providers, large companies...

BePATIENT wishes to contribute to promote the proper scientific use of the data collected, which implies data analysis, interpretation, knowledge transfer among the networks.

Our goal is to use this knowledge base as a new vector in clinical research. Thanks to the interactivity of the platform, to the powerful data analysis tools put in place and to the training provided, this project will emphasize on Gold Standard of Care and compare it to Real World data, leading to a better harmonization on clinical and therapeutic practice, and enhancement in quality of life and patient autonomy.

Relying on our strong experience in information technology in the healthcare, we are using several interoperable modules (coming from our own library, from open source libraries or from business partners), creating a cross over platform between social network and content and evaluation media.

This platform is being developed in line with international standards in hospital information systems (HL7, IHE) and international standards in clinical research (CDISC, FDA).

Structurally, the platform is constituted by:

- CMS (Content Management System), dedicated to conception and dynamic update of websites, content management or multichannel applications.
- EDC (Electronic Data Capture), allowing acquisition (data entry), treatment, cross-check controls and real time analysis of clinical data.
- Workflow Management System, allowing the treatment of flow and direct transmission of information between individuals or groups of individuals.
- Clinical Data Intelligence, automating the Reporting and Data-Mining, specifically towards key indicators.

Technically, the platform is developed with programming tools of the latest generation (Python) and supports mobile devices (smartphones, tablets...).

International data security standards guarantee the highest level of data protection.

**A modular and integrate eHealth platform & Personalized services**

- Community
- Remote Health
- Patient Education
- Research

**Internet access – Mobile Internet > available on iPhone®, iPad®, iPod®, Android®**

**The range of services**

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**BePATIENT** is an « eHealth » platform that accompanies, trains, gathers and evaluates communities of patients, expert patients and health professionals, mainly in the area of chronic diseases and their prevention.

**Prediction Prevention Participation Personalization**

Our mission is to provide everyone with the skills and the tools required to promote one's health and quality of life.

The company was founded by the will of Frederic Durand-Salmon and his team, promoting 20+ years of experience in clinical data management, patients' electronic medical files and clinical research.

BePATIENT is getting the answers to the need of bring more autonomy to the patient and making him part of his own health.

The range of services provided are humane, safe, convenient and personal. They are based on the latest internet and telemonitoring technologies and adapted trainings in therapeutic patient education.

BePATIENT whishes to contribute to the future of personalized medicine.

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Protect patients, assist caregivers and support carers

Designed for vulnerable patients, such as Alzheimer’s, as well as for those subject to chronic diseases, BlueHomeCare® is a unique system which enables institutions and service companies to deploy operational assistance and telemedicine platforms. This solution, which is already functional, combines a call centre, the BlueGard GPS geolocation bracelet, the BluePen digital “pen and paper” logbook and physiological sensors (weight, blood pressure,...), packaged in a single comprehensive information system.

By ensuring a global management of the home care processes, this solution aims to slow down the progression of the disease and delay the transfer into residential care. Enabling patients to live longer at home under decent conditions, this open and upgradable system features to day:

- 24/7 assistance and geolocation,
- Prevention of weight loss,
- Monitoring of blood pressure and cardiac rhythm...
- Efficient coordination of home carers (MD’s, nurses, aids, deliveries)
It’s implementation results in the extension of well-being at home, relief of carers as well as significant savings both for families and communities, amounting up to 3 000 € monthly per patient compared to the cost of a medical institution. BlueHomeCare will also include a social network of home carers in order to relieve the stress of families. By 2013, Bluelinea expects 5,000 patients to adhere to this service in France alone.

**Founded in Paris in 2006, BLUELINEA has since launched a range of innovative devices designed to ease the use of computer technology by caregivers and which are today in operation in numerous medical institutions: authentication RFID badge, digital pen and paper solution, bracelets for protecting newborns or Alzheimer patients...**

**Its experience, linked to an –in-depth knowledge of the healthcare market, led the company in 2010 to integrate its products within a global system, BlueHomeCare®, for enabling elderly people suffering from a loss of autonomy live better and longer at home.**

**Already active in the Benelux countries, Bluelinea is currently expanding into new markets abroad.**

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CIRA designs ICT for medical practice

CIRA is a pioneer in technologies improving medical practice. Its contributions to medical image dematerialization have paved the way to several new medical usages like tele-imaging for stroke.

WAAVES™ is the first image encoding technology for eMedicine CE marked as Medical Device. WAAVES files are several times smaller than other image coding solutions according to medical studies. A chest X-ray image is routinely compressed 80 times, still in diagnosis quality, files are on average 2.5 and 9 times smaller than Jpeg 2K and Jpeg. WAAVES quality and compactness enable worldwide patients to benefit from live remote diagnosis even on mobility. WAAVES is now embedded into practitioner and dental software, ultra-sound and tele-consultation systems. An ECG solution will be announced soon.

Going forward, WARM collaborative R&D project (FEDER), labelized by Systematic Paris Region Systems & ICT Cluster, aims to develop a medically qualified chip based on WAAVES, ensuring fast, reliable and secure access to high quality images on mobile equipment such as tablets and smartphones.

Breakthrough in eMedicine, Infocament™ (CE) standalone PHR was designed highlighting WAAVES power. Infocament stores all kind of data, including imaging exams. It provides instant access to patient medical records to any authorized Health Professional, worldwide, without any Internet connection. Moreover, Infocament supplements seamlessly centralized or Cloud based EHR thanks to synchronization mechanisms. Version 2 will be launched in 2012 internationally targeting travelers, medical tourism and patients suffering from chronic diseases.

CIRA, ICT provider is fulfilling the exploding needs of eMedicine.

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CIRA, ICT designer SME, has started licensing in 2010 its developments, results of 10 years of image R&D projects. Its portfolio consists of WAAVES™, a versatile image coding algorithm, and Infocament™ PHR. Sales are taking off fast, with a 70% growth in 2011. The company reached a new milestone providing over 30,000 WAAVES licenses to French medical and dental software publishers. 2012 will see the launch of Infocament version 2 in several European countries kicking off the international development of the company.

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Kayentis the best of the Digital Pen & Paper Technology

As to better take charge of the third and fourth age members of the population, it is important to improve their quality of life by enabling their entourage (carers, doctors, family members, etc.) to have improved access to information, traceability of initiatives and better management of personal risks. Proposing solutions intended for many healthcare and pharmaceutical sectors, Kayentis has been identified as a strategic stakeholder able to fulfil these objectives.

Using Digital Pen & Paper technology, Kayentis solutions combine the very best of the physical and digital worlds: the simplest data collection methods, for dependents and for stakeholders in the medical and social settings (digital pen and paper solutions), offering the highest quality data; combined with a whole host of advantages pertaining to electronic data management (real-time access to data, precise parametering, alerts, collaborative workflow, etc.). These solutions enable all parties involved in the healthcare of an individual to be inter-connected and coordinated in the most natural and rapid manner possible. All of these advantages contribute towards better understanding and anticipating the needs of dependents.

Through its convivial nature, the digital pen and paper solution is today the best method of including everyone and therefore of accelerating the adoption of new technologies in the healthcare setting. Thanks to its groundbreaking solutions, Kayentis combines ease of use and complex technology.

Kayentis is the #1 publisher and operator of digital pen and smart paper solutions for the healthcare industry. This solution based on the Kayentis Digital Pen & Paper platform combine the best of the physical and digital worlds: a very simple data collection method (paper and pen) that offers the highest data accuracy, and all the advantages of electronic management (real-time data, precise time stamping, audit trail features, alerts).

Kayentis is the sole Platinum Partner of Anoto qualified for its core technology and its vertical solutions with a worldwide capacity; thanks to the robustness of its platform and the quality of its applications.

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Provider and Partner for e-health training programs

**As a provider**
Since 2005, our company has embarked on the precursors of interactive e-training programs and worked closely with major health institutions to develop training programs based on simulation and virtual worlds.

Already delivered:
- **HAS (Haute Autorité de la Santé)**
- **Alliance HealthCare – AlphegaGame**
- **UCANSS**
- **Sanofi – CMP Medica**
- **Solvay Pharma**

**Example 1**
**Alliance Healthcare - AlphegaGame**
AlphegaGame is a learning game for retail pharmacists, focusing on customer advice. Modules are distributed to Alphega pharmacists in 1,000 pharmacies, and to the Alliance Healthcare network, comprising 12,000 dispensaries. The game targets three areas of skill:
- The analysis and delivery of a prescription according to the patient's profile
- Self-medication
- Dispensary staff management

**Example 2**
**Sanofi – CMP Medica**
Sanofi provides a series of training modules on a variety of illnesses, such as chronic venous insufficiency, to its network of pharmacists, on its website (santea.com), on the Quotidien du Pharmacien website (quotipharm.fr) and via its medical representatives. As over-the-counter drugs are becoming increasingly common, the advisory role of the pharmacist has become greater and retail space is being reorganised.
**As a partner**
KTM-Advance is engaged in several academic partnerships, including University Jean-François Champollion, Toulouse-Rangueil Medical School and the PlatinnEs e-health platform.
Current projects:
- **3D Virtual Operating Room**
- **Stroke Education**

**KTM Advance**, a leading European e-learning provider, combines the latest findings in cognitive science and videogame technology to create highly motivating, interactive learning programs in scripted graphic worlds, tailored to specific audiences to train and inform. Founded in 1995, KTM Advance is an independent company with more than 50 employees and headquarters in Paris.
**Facts & figures**: more than 50 training programs created per year; over 1 million learners using the solutions; programs offered in more than 30 languages.

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MédécinDirect is developing in E-health

A shared report

Today in France, medical demography is facing a strong decrease while at the same time the ageing of the population accelerates and consequently the increasing need for new health structures and tools. 15 million people were suffering from chronic diseases in 2011, 20 million in 2020 according to reasonable estimates. Many people lack of simple access to care or disease management.

Innovative R&D programs in e-health

The remote medical plateform

MédécinDirect offers an easy access to medical resources via a dedicated medical platform which can be contacted by email, telephone or Visio at anytime. GP or specialists can be asked any question and even though the service is limited to medical advices, a convention with ARS of Alsace will enable MedecinDirect to perform true telemedicine services. The services are offer by insurance companies to their beneficiaries usually on a free basis. MédécinDirect believes that such a service could be extended easily to private or public companies in order to provide assistance during working hours and to other medical professionals within HAD (home care) or EHPAD (elderly people) for disease management.

Self-diagnosis

Because the users of the services expressed a strong need for autoevaluation tools, MédécinDirect put strong efforts in developing innovative tools, in particular for self-diagnosis. They are imagined by our doctors, tested and validated scientifically. They will be at the free disposal of the users of the services. Complete tools dedicated to detection and follow-up of psychic or nutritional disorders are under development and will enable patients to better take in charge their problems in coordination with their own doctor or with medical support of MedecinDirect.

Follow-up of chronic diseases

SYMPAD is the French acronym meaning “system for medical monitoring of patients in pharmacy or at home”. It uses the latest technologies to ensure the follow-up of chronic patients. SYMPAD is based on the setup in pharmacy of wireless medical devices such as oxymeter, tensiometer, glucometer etc, linked to a box which analyzes and sends information to Medecindirect platform and/or to General practitioner. SYMPAD is an innovative and straightforward tool dedicated to patient and medical professionals for their mutual benefits. It will bring new paradigm in the actual disease
management providing to doctors and pharmacists a way to assist the patients for faster rehabilitation and lower risks of de-compensation.

By providing the patient the insurance that he is regularly supervised, it offers the best comfort to all, including medical professionals showing that we all care for the patient. It should reinforce the role of the pharmacist and GP in their common task of care and disease management.

MedecinDirect started late 2008 and built all the bases necessary to its operational launching in 2010. The signing of a contract with Insurances of the Credit Mutuel offered the services to approx. 100 000 people. Since November 2010, the employees of the CIC group (55000 employees) have free and unlimited access to MedecinDirect.

Other mutual insurance companies, such as Alptys, have integrated MedecinDirect into their complementary health offers.

MedecinDirect is one of the leader on the French market to have developed a complete approach of E-health for the benefits of patients and non-patients.

Many national and international partnerships are under discussion and will contribute to strengthen MedecinDirect positioning and assets.

We are welcoming ideas and new collaborations.

“Human is our source of inspiration”

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Quinten delivers superior value for a better Health by unraveling data’s hidden potential

Quinten is specialized in data leveraging. Quinten has developed an original & proprietary data-mining algorithm that allows identifying within available datasets the conditions in which drugs show optimal efficacy and safety, by detecting specific profiles of patients or compounds, which are not detected by other analytical techniques, including recent data mining approaches.

Quinten’s algorithm allows to unravel within heterogeneous datasets, without pre selecting, hierarchizing, nor pre cutting variables, the multiple combinations of clinical and biological markers associated to an over-density of the phenomenon of interest (Response or Non response to treatment, adverse events,...), and deliver the corresponding results in a clear and instantly exploitable format.

The relevance of Quinten’s approach has already been demonstrated in a large number of contexts, including:

- Late stage clinical trial optimization, to improve success rates in Phase III through personalized medicine,
- Curative or preventive risk management plans (identification of patients at higher risk of adverse events),
- Chemical lead optimization: Quinten has shown its ability to help chemists identify better drug candidates up to 4 times faster, by identifying optimal compounds profiles through their own early experiments.

Quinten’s missions are fast (6 to 8 weeks in average from data delivery), and always focused on delivering concrete & pragmatic recommendations to take up high stake challenges.

Quinten is a fast growing, fully self-financed start-up company located in Paris. Starting with 3 full time partners, Quinten has achieved in 3 years more than 30 missions for leading pharmaceutical companies, and built a team of 14 highly skilled data engineers.

Besides its mainstream services, Quinten invests in R&D programs with private and public partners to promote major advances in Healthcare through the optimal leveraging of available data (Clinical, biological, “omic”, chemical).

Need to get the best from your data?
Contact us and request an audit to evaluate its potential.
Quinten’s 3-step engagement process has been designed to guarantee your satisfaction.

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« We supply a platform dedicated to the optimization of each step of patient life

Services

Network

How does it work

We integrate events into some scenarios resulting in the participation of the social network and a services portal (medical, tele-operators, services providers, ...)

Blood Tension over 10 → No confirmation of medical treatment

E-mail sent to the pharmacy → SMS transmitted to a diabetic association → Alert to a teleoperator

Our scenarios can adapt to any kind of usages (comfort, security, autonomy, ...)

TV not shut down after 06:00 AM → SMS to neighbours → No answer → Automatic call to family
Our platform

Intuitive tactile interface + Scenario Manager

Access to a service portal

Connection to a box or same captors

Link to a private network

800 K€ of subvention from the state to deliver a demonstrator adapted to elderly

Strong partnership with "Institut de la Vision" to adapt the interface to the visually impaired population

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QOOQ, the digital platform for culinary services and content to help households improve their eating habits

QOOQ offers alternative, premium, multimedia cookery content and highly useful interactive services that can be freely accessed on any media with an Internet connection (PC, tablet, Smartphone, online TV) or on QOOQ's own tablet for use in the kitchen. The QOOQ tablet is made in France and designed to be waterproof, splash-proof and resistant to dirty fingers.

QOOQ offers a selection of more than 3,600 original, exclusive and interactive recipes, including more than 1,600 entirely in the form of HD videos. More than 100 renowned chefs were involved in producing the recipes. Each recipe is easy to follow and educational, with details of preparation steps and cooking techniques, from the most basic to the most complicated.

QOOQ wants to go a step further by offering a solution that can help each user on a day-to-day basis. By customising its content to the users' needs and potential illnesses, it gives users a better understanding of what they are eating and enables them to adapt their diet to their health. This solution, in addition to the current culinary content, will combine education and information about food and ingredients, give advice on good nutritional habits and recommend receipts and menus tailored to people’s individual needs.

QOOQ's long-term goal is to change dramatically and sustainably the eating habits of households in France to begin with, and then in the rest of Europe and the United States.

About UNOWHY
Founded in 2007 by Jean-Yves Hepp, UNOWHY is a digital media group offering multimedia content and services based on gastronomy and lifestyle. UNOWHY wants to leverage new technologies to revolutionise the way we cook and think about food.

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