ROPARDO

Software Engineering since 1994

Dr. Ciprian Cândea

Fueled by Innovation, Quality, Delivery on Time

www.ropardo.ro

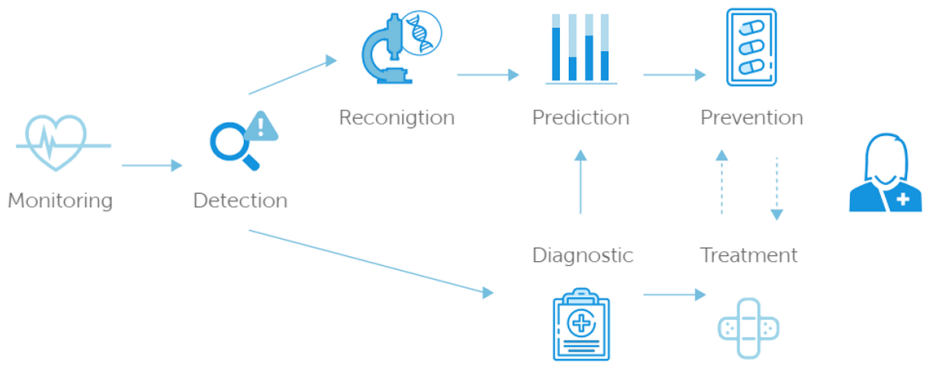
OUR MISSION

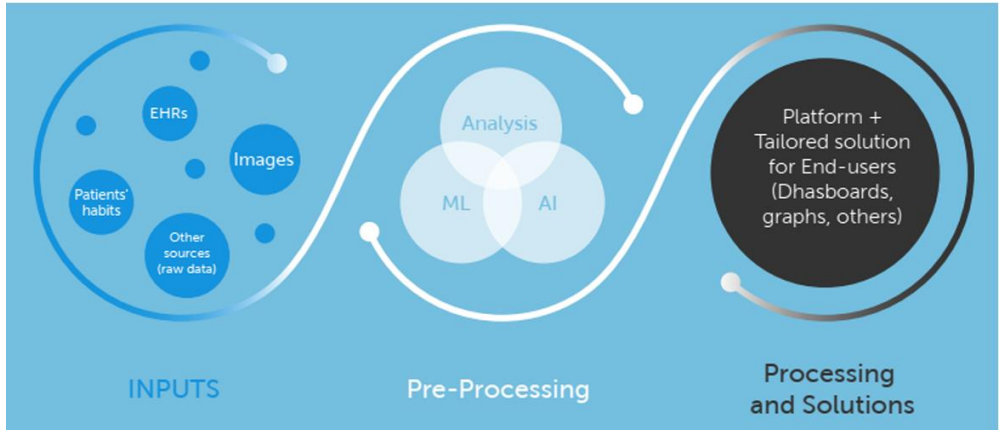
We craft advanced software systems for exceptional business experiences.

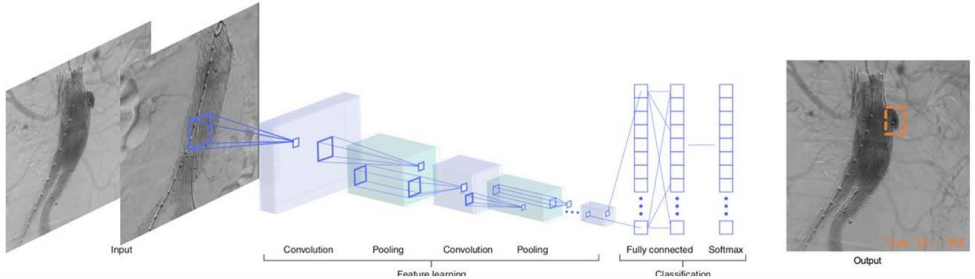
- on TIME
- at high QUALITY
- with the right BUDGET

Today, technologies are ubiquitous in our daily lives, regardless of biological age.

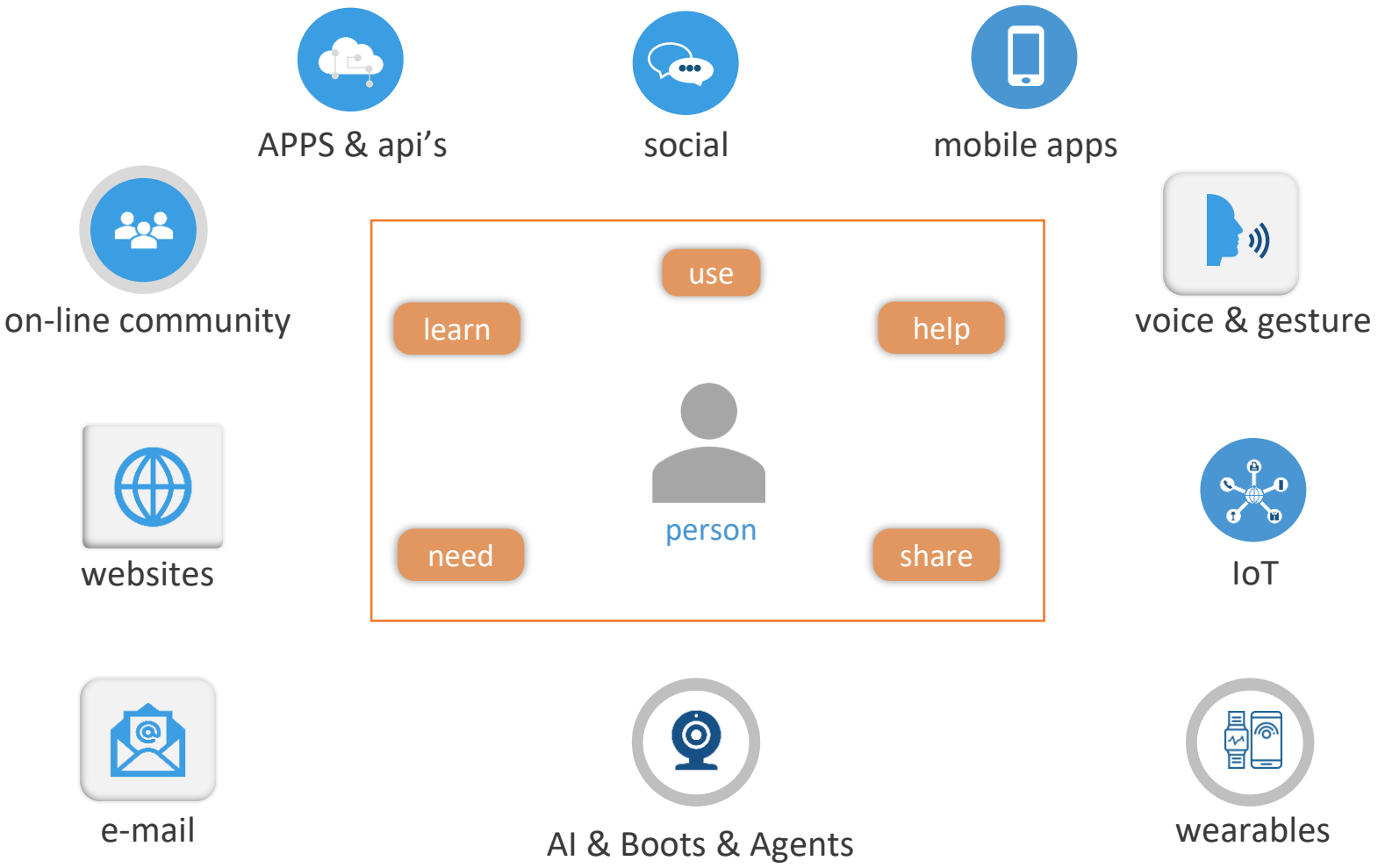
Health platforms investigated different technologies that are appropriated to be used and sustain ageing well.



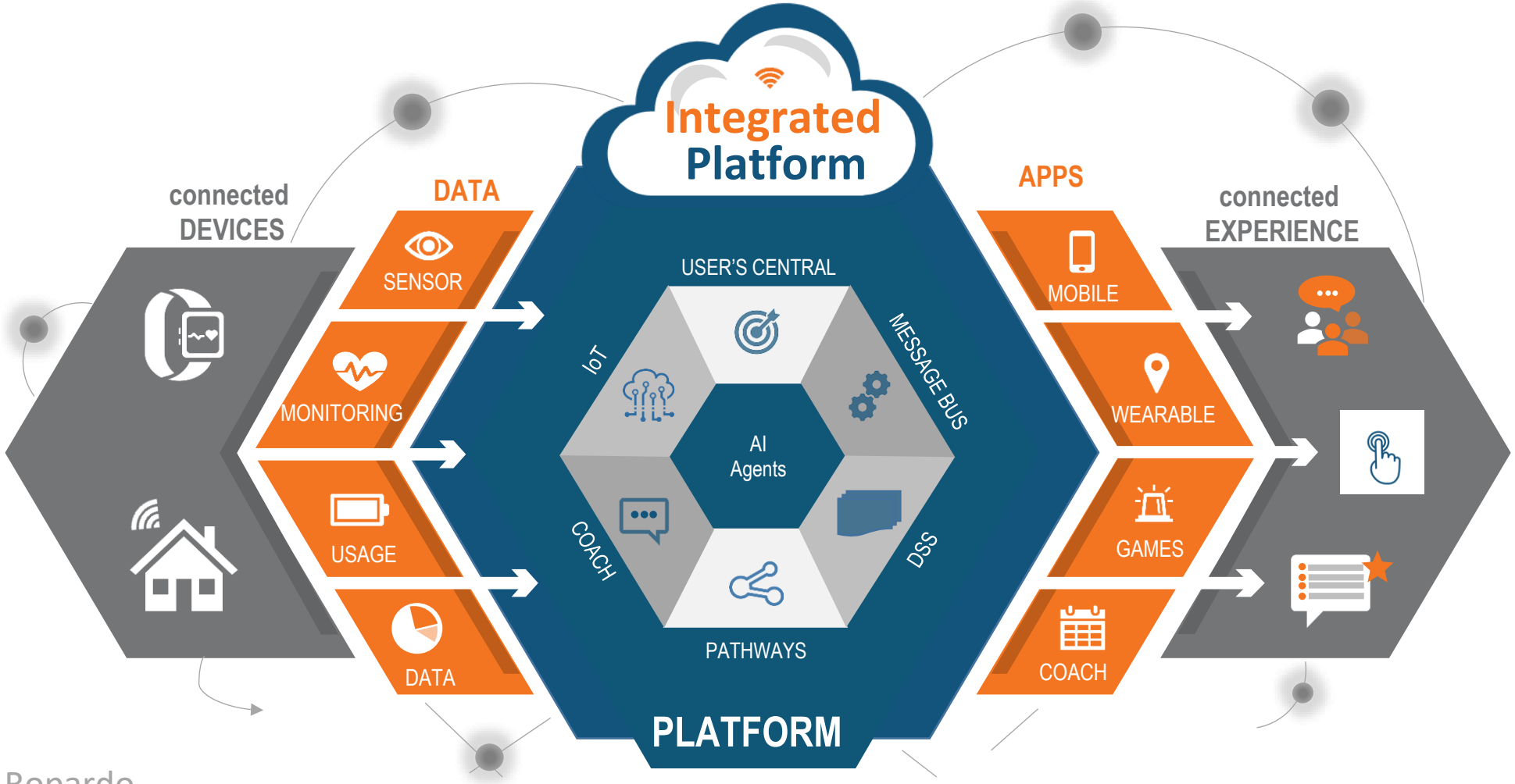




User Journey



Integrated Architecture



- Mobile Apps
- Chat bot
- Tangible Interface
- Web Interface

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Integrated Architecture

Electronic Health Records, Single Sign-on, Credentials-Forwarding, Platform, Localization, Onboarding, Workflow, Billing, Alerting

System integration

IT INFRASTRUCTURE

Connected Health Data Aggregators

CHDA

HOSPITAL CARE

In-Patients & Clinicians

Clinical portal
Patient onboarding
Remote monitoring
Remote coaching
Reports generation
Two-way messaging

HEALTH RESEARCH

R&D Center

Anonymized data
Export portal
Per Group/CSV format

ADMINS

System Administrators

System admin console
Clinical users management
Group management
Population-level reports

HOME CARE

Out Patients

Patient apps
Health data tracking
Patient questionnaires
Reference ranges
Health risk assessments
Two-way messaging
Smart alerts

DATA COLLECTION

Patient Devices

Blood pressure monitors
Heart & Respiratory monitors
Plantar pressure sensors
Pedometers
Scales
Pulse oximeters
Glucometers
Spirometers
Smart watches
Smart wristbands
Activity trackers

Mix Components

WEB PORTAL

Access actual and historic data
View reports and recommendations
Social relations

MOBILE APPS

Interact with users
Actual and historic data
Social integration
Games

ANALYSES TOOLS

Based on the acquired data produce analyses
User recommendations
Apply different algorithms i.e. data mining / reasoning systems

HEALTH COMPANION

Track different parameters
Capture data from specific sensors
Store health data on a user account

Lesson Learned

- Teamwork – Domain Experts must be with your Tech Team all the way
    - Early Develop and Maintain a common Ontology, between Domain Experts and Tech Team
    - Agile organization - Sprint(s) and lesson learned sessions
- Know the “Why” – 1) identify user needs , 2) do not super engineer your Tech Solution
- Mobile apps that duplicate web content are pointless (most of the time)
- Open source is the presence and future – use and give it back
- Never skimp on QA Testing
- Never stop learning

What can be done different

- Challenge : assess at the same time the efficacy and the user experience of the system
- Standardization to improve interoperability
- Management of the different smart phone OS version
- **Involving experts in using the whole system from the very beginning**
- Co-design process to be as deeper as possible
- **Reduce Complexity** – in many cases requires too many technologies and functions that may confuse users
- Multi-domain scope of the projects – generate complexity of the overall system from the tech side also is very (and likely too) high to leave individuals alone with it

ROPARDO RESEARCH & INNOVATION CENTER

We convert our 30 years of R&D results into marketable software solutions

ROPARDO specializes in tackling challenging projects by leveraging knowledge-based systems, decision support systems, and cutting-edge technologies such as e-Health, IoT, Cloud, and Big Data.

Looking for a long-term partner ?
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find out more about us: