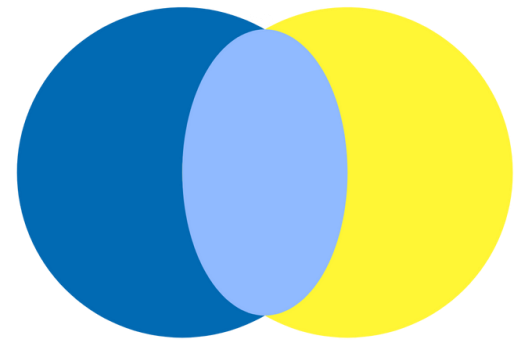


CEROTEK[®]



About us

Cerotek is a startup born in 2018 from the intuition of a psychiatrist and medical director of several care facilities for elders and people with disability.

Cerotek's project, along with the managing system of **CentroStella**, allows to offer a real support in order to revolutionize the concepts of assistance and prevention.

Thanks to the electronic devices supporting **Telemedicine** and **TeleAssistance**, a safe and monitored context is favored, facilitating healthcare operators' work and increasing the quality of life of the person assisted.

Vision

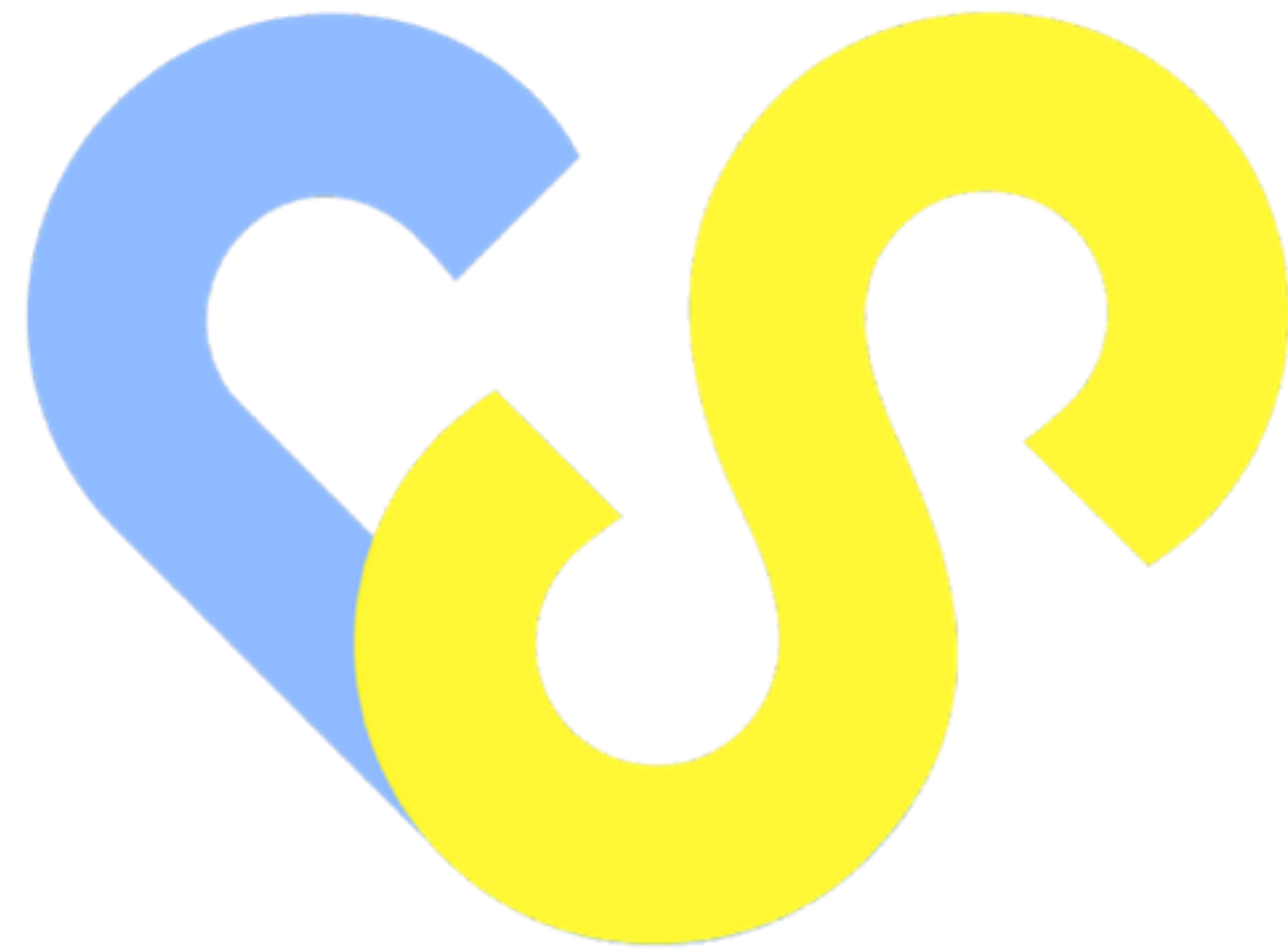


Revolutionize the concepts of Assistance and Prevention, overcoming the drastic fracture between home care and residential care.

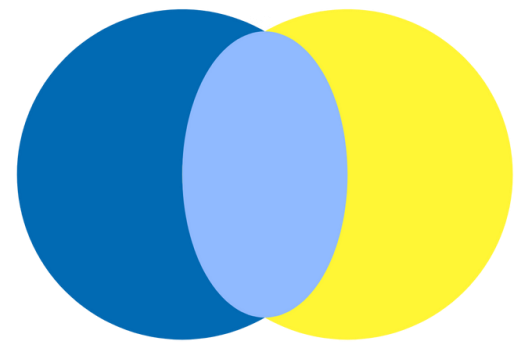
Mission



Through medical devices with high technological value, a faster healthcare workers' intervention is possible, allowing a safe and monitored context and a better quality of life of the person assisted.



CentroStella



CentroStella

CentroStella, other than being a managing software, is a **complex system** that operates both on local network and on Cloud. It **integrates, elaborates and coordinates** all the messages from the different devices that it makes use of (**wearable sensors and IOT accessories**).

It was conceived with the specific goal to **increase the quality of assistance**, implementing it on an observational level, favoring the **centrality of the guest** and reducing the possibility of mistakes in the process of managing the patient.

Database

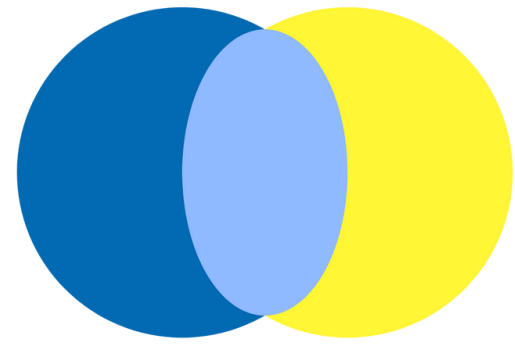
With the help of medical instrumentaton, it allows to: 1) collect measurements of vital parameters on a periodic basis 2) help to remember the medicines to take 3) manage emergencies.

Analysis

With the historization of all the events, it allows qualified healthcare workers (primary care physicians or specialits) to analyze the history of measurements, examining their trends and make evaluations consequent to the comparisons between the therapies administered and the measurements found.

Master Data

CentroStella can: 1) create its own master records or import it from other managing systems 2) export its master records so it can be used on other managing systems.



Our Services

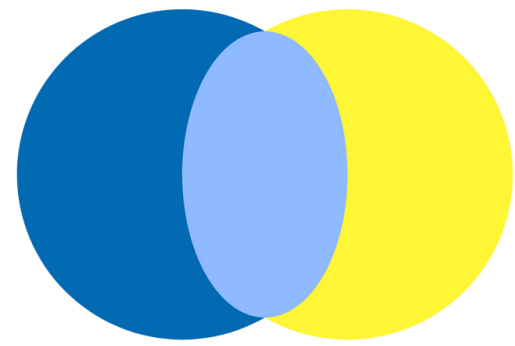
● TeleAssistance

- In Residential Health-Care Facilities (iSensor, Assistance Call System, iPill Box)
- at home (smartwatch, iPill Box)

● TeleMedicine

- Doktorbag

TeleAssistance



RHCF- iSensor

iSensor is a wearable sensor that monitors the guests' datas. CentroStella receives and memorizes registered datas from supporting electronic devices (sensors) and, in real time, analyzes the datas forwarding any **alarms** to the smartphones for appropriate operators' management.

The tracking of the guest's position is possible thanks to the installation of iGate devices every 5 meters in the Structure.



IMMEDIATE ALARMS



Falling Alarm

It gives an indication of the position of the guest in the structure in order to speed up the intervention of an operator



Shaking Alarm

It indicates the location of the guest for the prompt intervention of a control operator.



DELAYED ALARMS

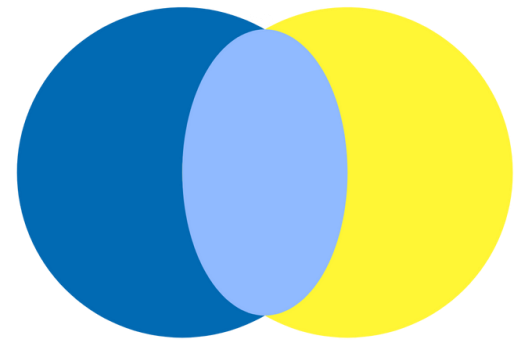


Body Temperature



Host Location

The alarm will activate after a maximum of 10 minutes from the leaving of the guest from the designated range of action.



Home Care- iSensor Pro



iSensor Pro is a wearable device that allows to monitor the person at home.



It detects fall, position and different vital parameters such as body temperature.

It's a smartwatch that allows the immediate activation of an SOS for the intervention of qualified operators.

RHCF- Assistance Call System

The Assistance Call System is managed by CentroStella that makes use of electronic devices capable of working through radio frequency, facilitating healthcare operators' work and reducing the possibility of mistakes. **N.B VDE_O834 compliant system**

 Today, the electronic devices that support CentroStella through radio frequency are:

1 HEADBOARD AND BATHROOM ALARM



Wireless devices with a call button that allows the guest to request assistance from the room or bathroom

2 LIGHT ALARM

The alarm placed outside the room starts flashing and ringing so that the room where assistance was requested is visible



RHCF- Assistance Call System

3 SMARTPHONE

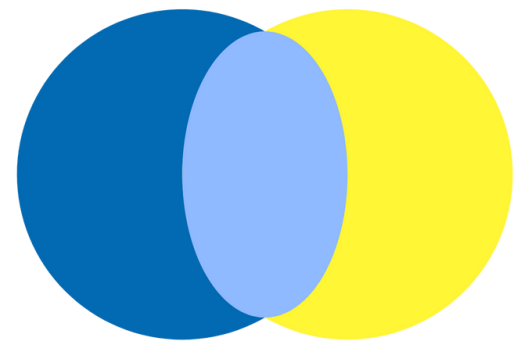
On the smartphone provided to the operators connected to CentroStella through the App, the request of assistance, the name of the patient, the number of the room and the time passed since the activation of the call will appear.



4 DISPLAY OR PAGER

On the display, in the corridors or in the common rooms, and on the pager given to the operators, are indicated the rooms where there is a request for assistance.





RHCF- Assistance Call system

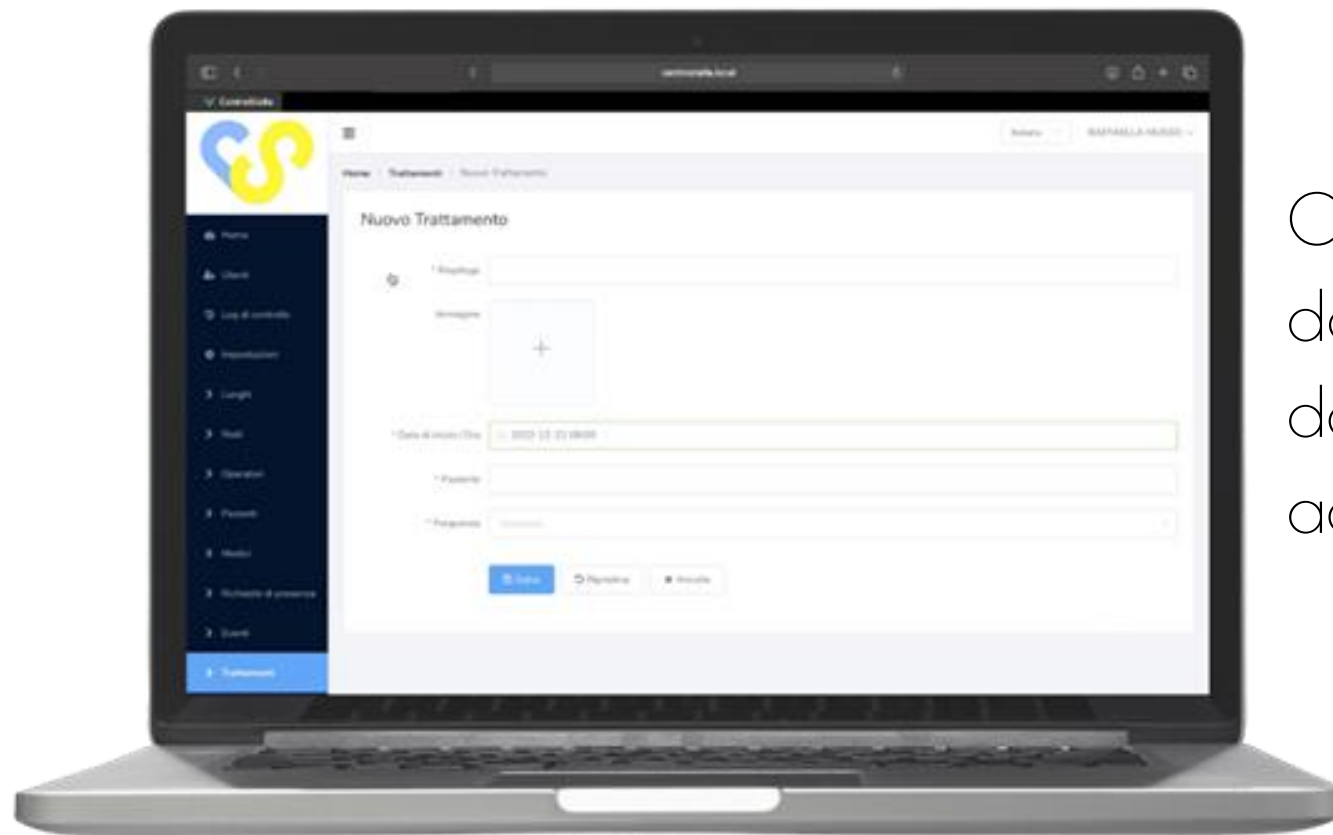
With CentroStella is possible to:

- Visualize and manage the requests of assistance
- Through the App, put the smartphone close to the **NFC Tag** of the **headboard** of the guest and close the intervention.
- Insert added notes before closing the intervention in order to better identify the event and improve the management and prevention of adverse events (**risk management**).
- Visualize, in CentroStella's home page, the notifications for the working issues of the products

Since 2021, we have installed 500 Assistance Call systems in Piedmont.

RHCF- iPill Box

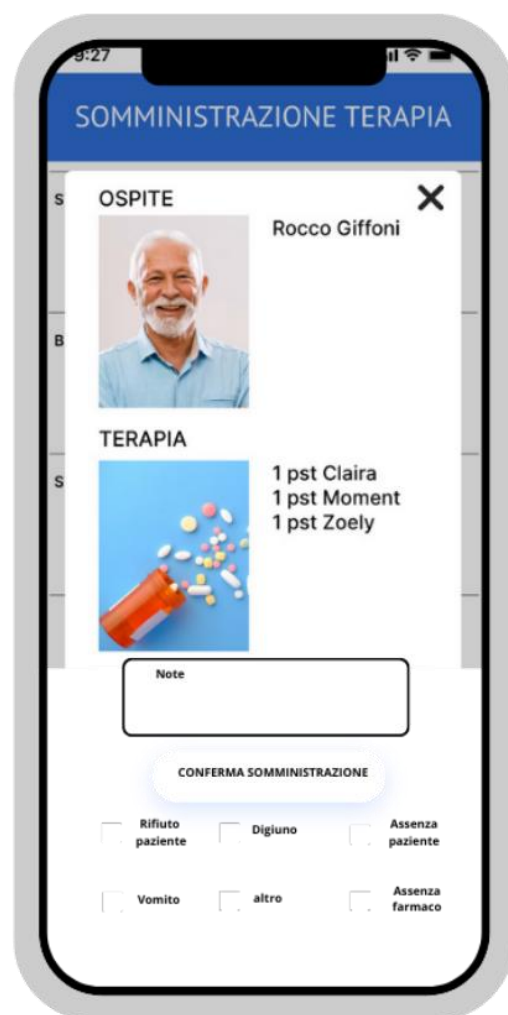
In health-care facilities, for each person, a NFC Tag is provided.



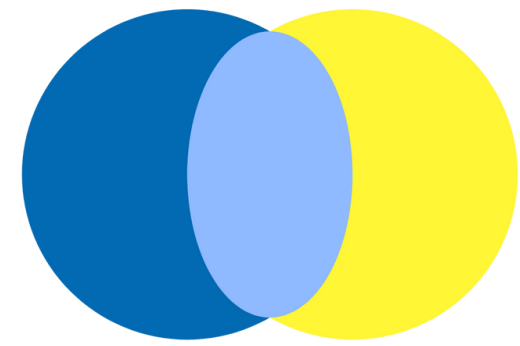
On CentroStella's management system, under «treatments», the description of the therapy, photos of the medicines to take, the date, the hour and the frequency of the administration will be added.

RHCF- iPill Box

Putting the smartphone with the App close to the NFC Tag, the healthcare worker can see the data registered on the management system and a picture of the guest, making sure to administrate the right dose to the right patient at the right time. Automatically, the nurse who took care of the preparation of the treatment and the nurse who administrates it will be registered.



To close the intervention, the healthcare operator will have to click «confirm administration» under «administration therapy» on the App.

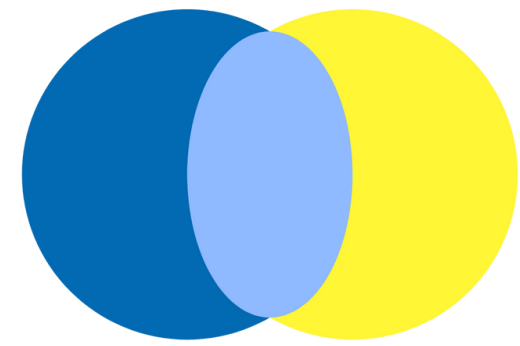


Home care- iPill Box

The iPILL BOX for home is a round dispenser with 28 spaces for the pills with which is possible to set up, for example, a therapy for a whole week.



Organized facilities for home assistance can access to CentroStella's management system with the picture, personal data and therapy of the assisted. For example, through the App, it's possible to set up the dispenser at the right time for the administration of the medicines.

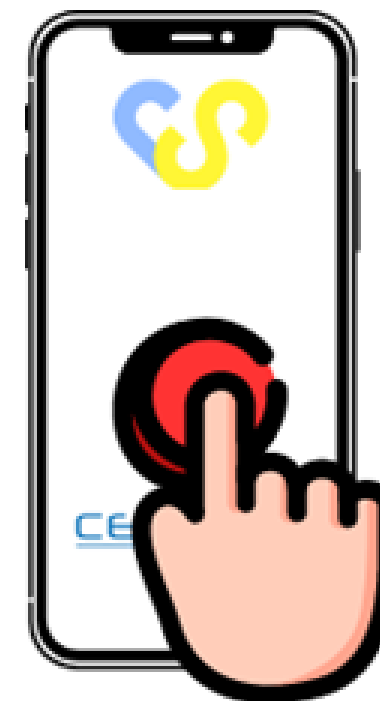


Home Care- iPill Box



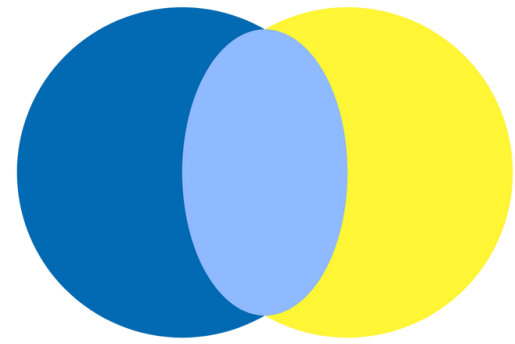
Through the App given to the assisted, at the time set up, a vocal reminder will activate. The iPILL BOX will spin, opening at the right place for the right therapy.

To make sure the therapy intake has taken place, the assisted will have to confirm through the red button on the App. Without confirmation, CentroStella will send an alarm notification to the Operations Center.





TeleMedicine



Doktorbag

With the support of medical devices, CentroStella receives the measurements of vital parameters and performs an initial assessment. If necessary, it forwards a **notification directly to the physician**.

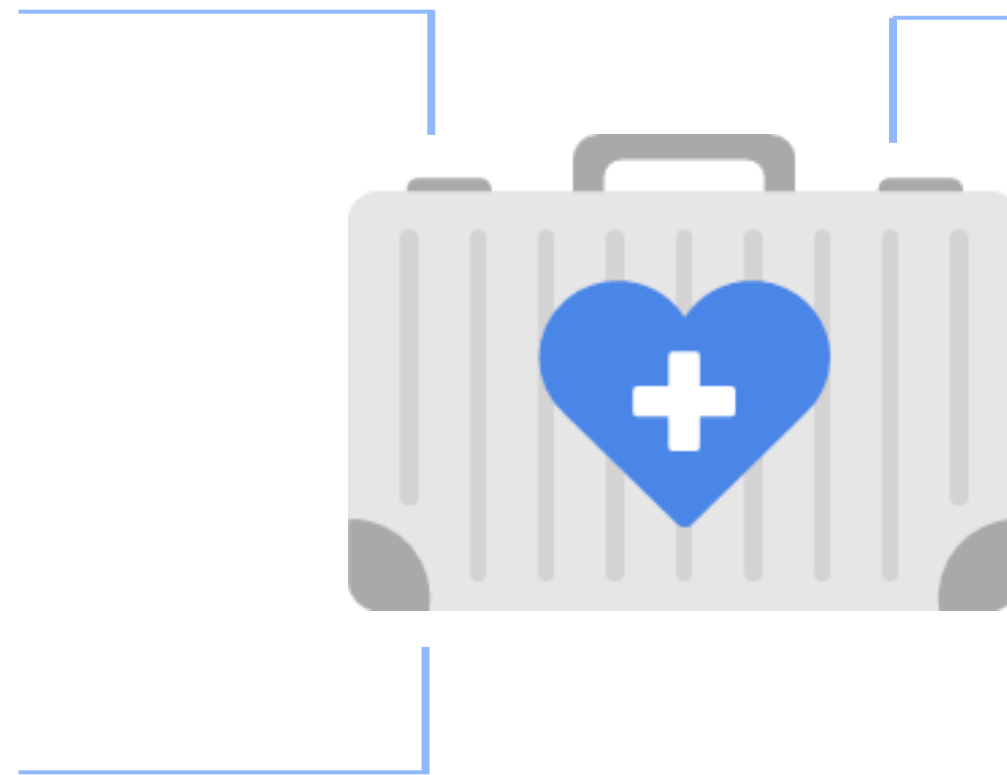
The collection of vital parameters is done through a portable briefcase which contains:

- **medical instrumentations** of very intuitive use to make 6 measurements (N.B total number of measurements: 23)
- **A tablet with App** installed that automatically sends the measurements performed to CentroStella

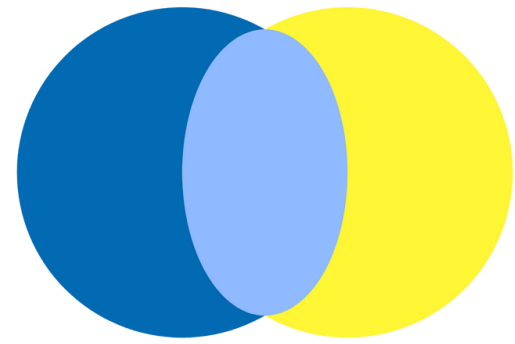
- Body Temperature
- Blood Pressure
- Saturation
- ECG



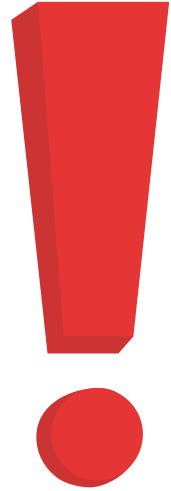
- Glycemia



- Weight
- Hydration

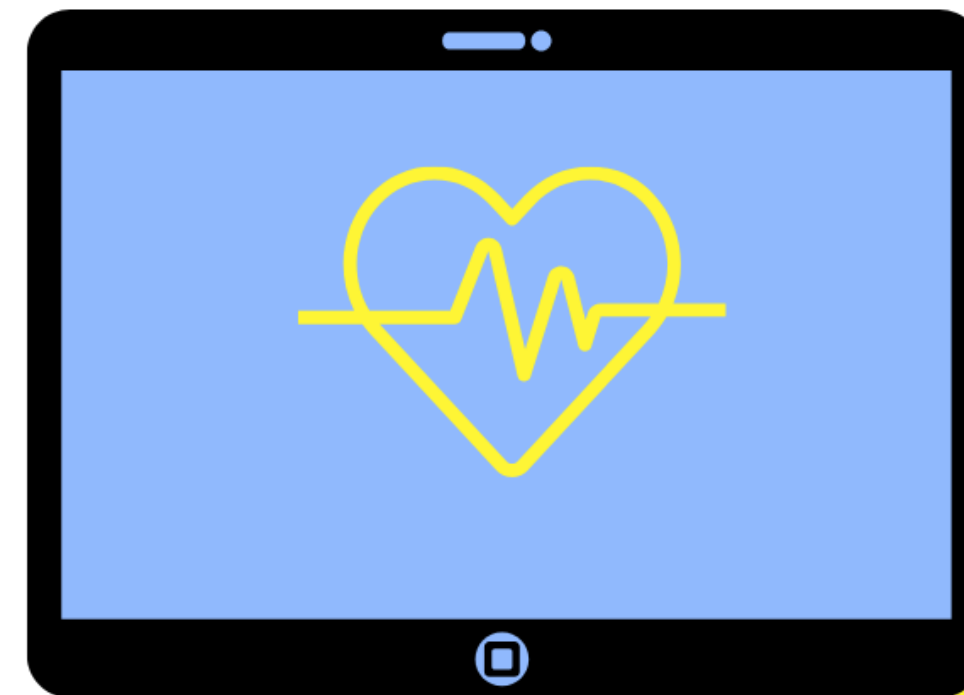


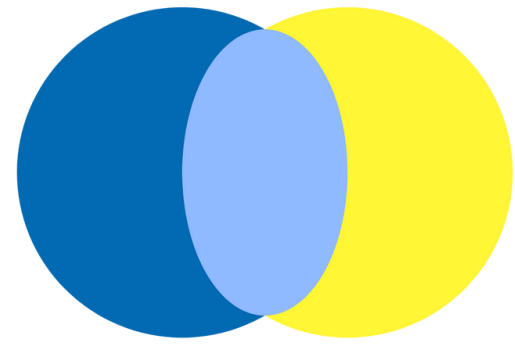
Doktorbag



The failure to detect the parameters within the day and hour established cause the **activation of an alarm** and **healthcare workers' intervention** (via phone).

The **tablet** supplied with the Doktorbag, a part from allowing the recording of the datas, automatically transmitted to CentroStella, permits a connection between operators and patients. Thanks to the tablet, it is possible to contact the assisted to guide them from home or, for the assisted, to request assistance.





Summary

CentroStella allows to:



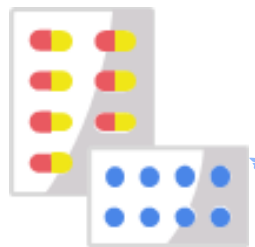
Consult medical records

The accredited healthcare operators access the management system via APP and can **verify, filter and extract** the data of interest.



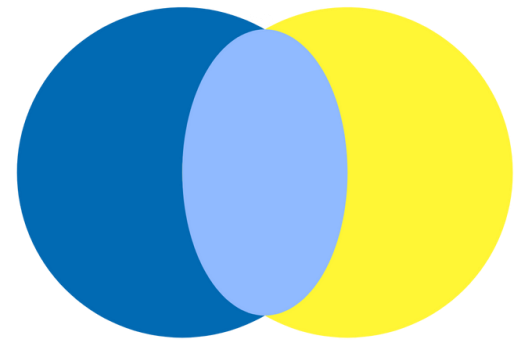
Load and edit therapy

With appropriate credentials the doctor can, through APP, **enter, verify or change** the therapy of the patient



Prepare Therapy

CentroStella **helps prevent errors** during the preparation of medicines by using a weekly dispenser with NFC Tag on it.



Summary



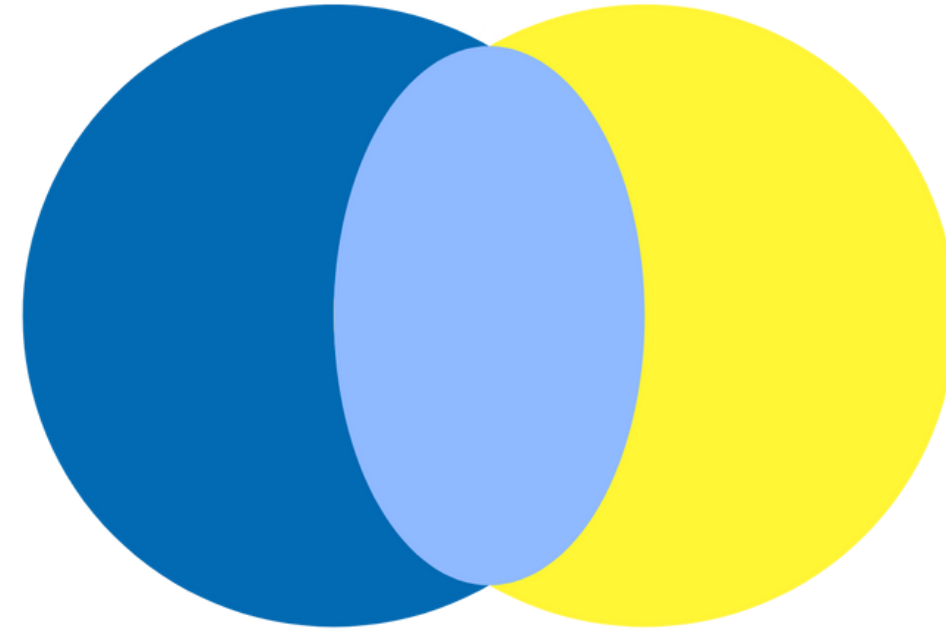
Administrate Medicine

CentroStella, at the time set, sends via APP to the **healthcare worker, a caregiver or a patient** if autonomous, a notification to remind him to take his medication. Second-level control will be done through the NFC Tag by displaying the picture of the patient and the set of medications to be taken at that time.



Chat

CentroStella will offer and **online service**, in the case of assisted facilities where the healthcare workers can activate an audio-video communication with a doctor or a specialist; in the case of autonomous patients or with caregiver, it can also be activated an online interaction with the Operation Center where healthcare workers will be present.



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