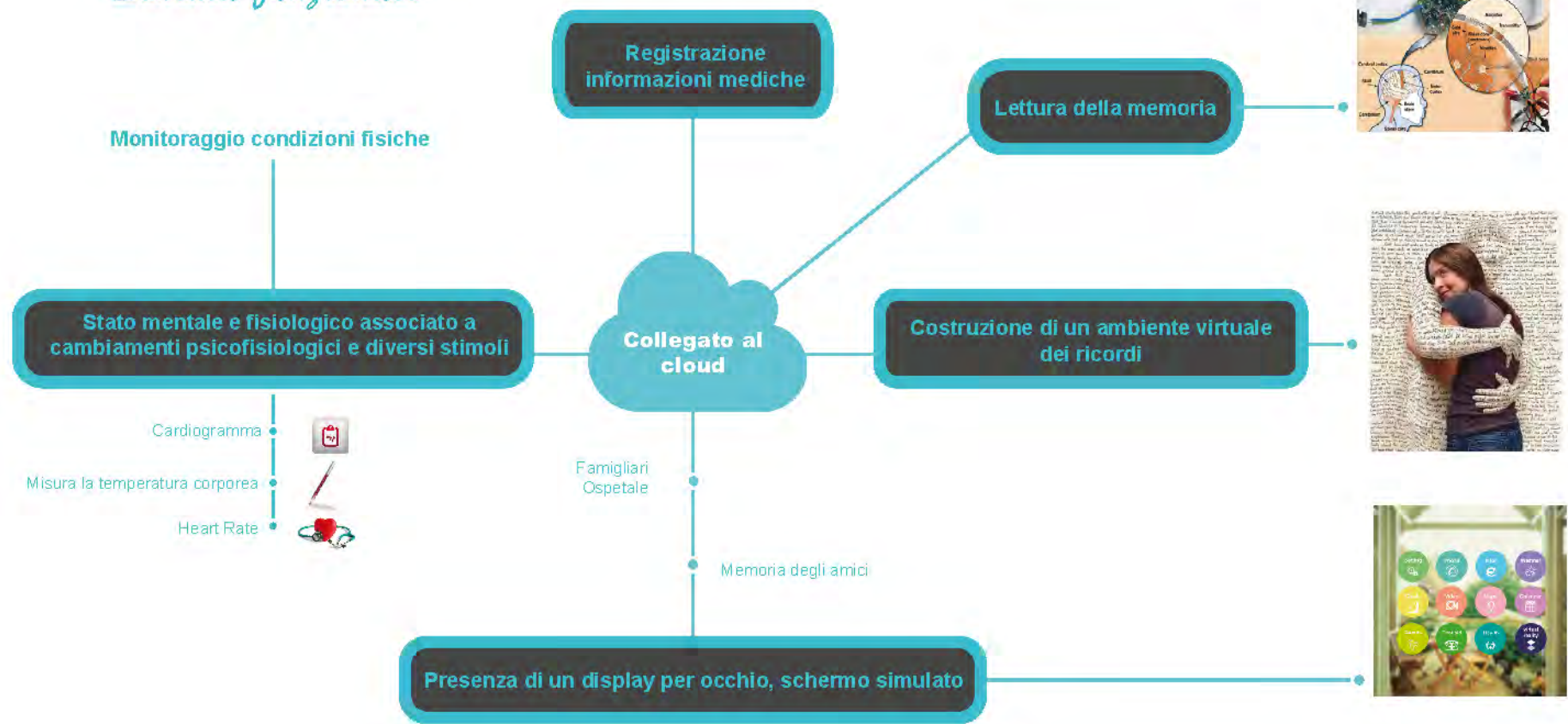


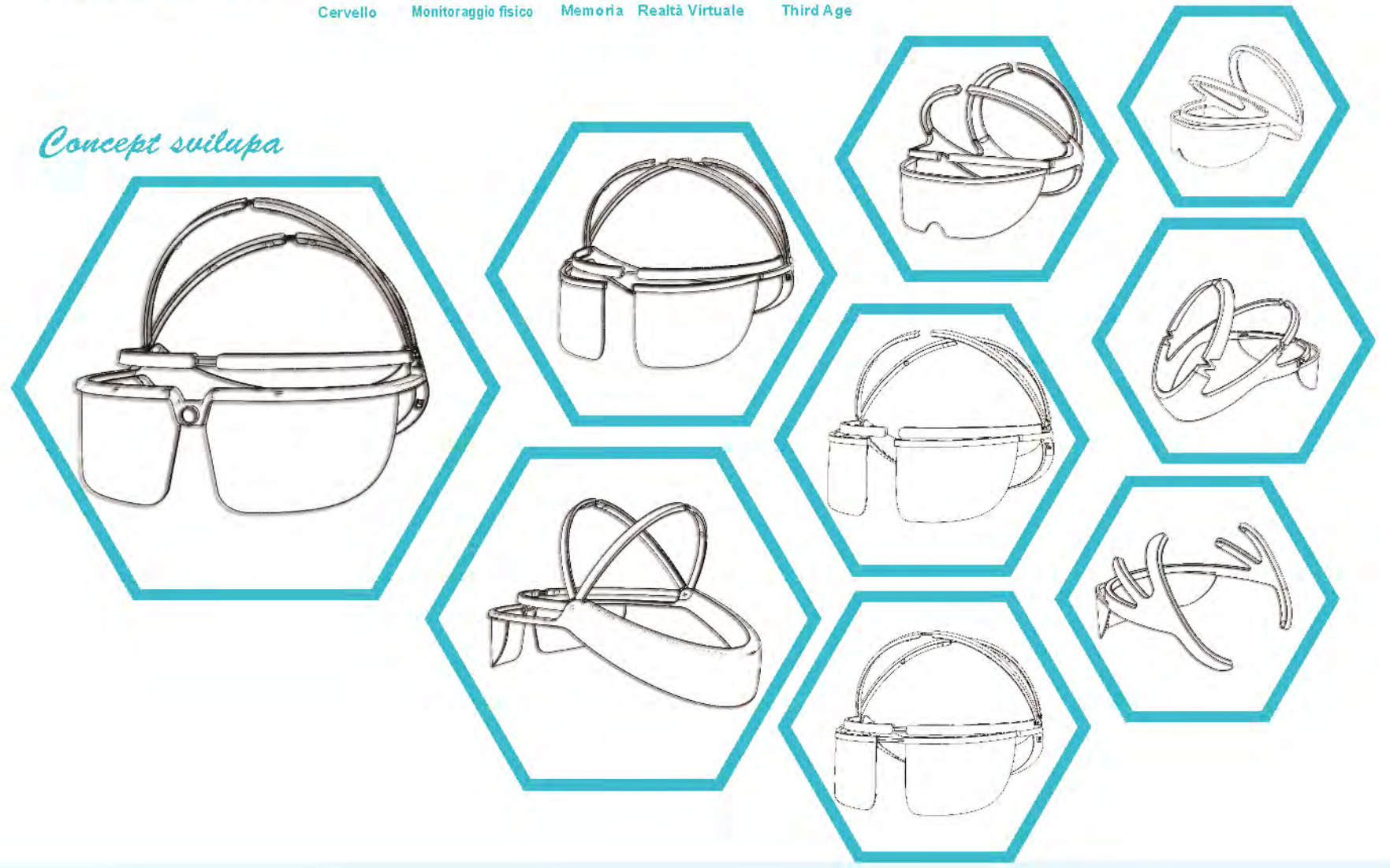
### Schema funzionale

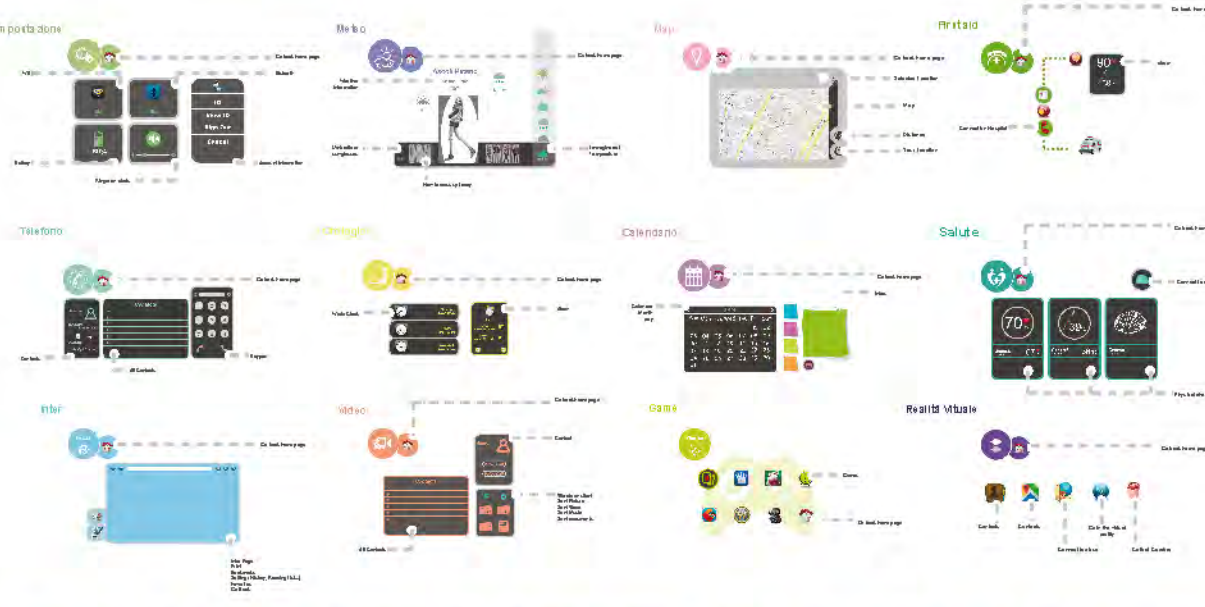
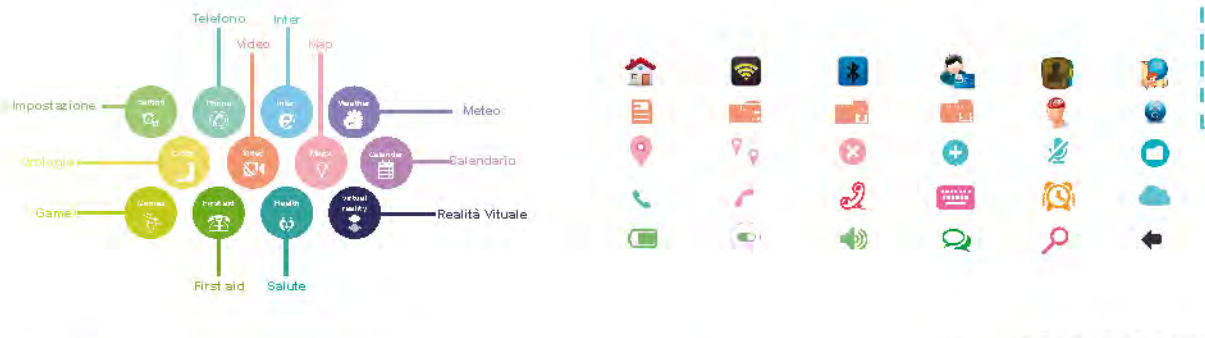
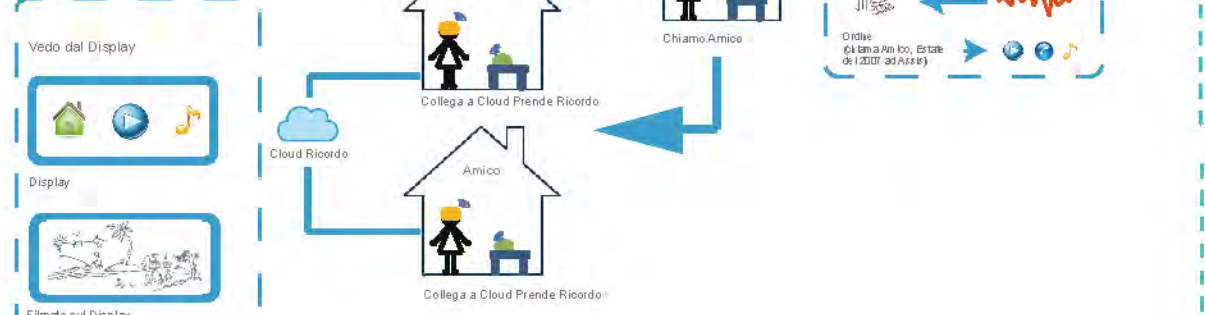


### Parola Chiave

Cervello Monitoraggio fisico Memoria Realtà Virtuale Third Age

### Concept sviluppa





### Brainwaves

The most commonly recognized brainwaves are alpha waves, which are associated with a relaxed state of mind.

Alpha waves are measured by an EEG. The amplitude of alpha waves is related to the level of relaxation. Alpha waves are most prominent in the 8-12 Hz range.

Dimensione	Type	Frequenza	Periodo	Modello di onde e caratteristiche
Delta	0.1-4 Hz	2-3 Hz	300-1000 ms	Dominante in neonati, sonno profondo, comatoso
Theta	4-8 Hz	7-12 Hz	80-140 ms	Stato di coscienza, calma, sonno, sogni, meditazione
Alpha	8-12 Hz	12 Hz	80 ms	Stato di calma, veglia, rilassamento, concentrazione
Low Beta	12-15 Hz	12-15 Hz	60-80 ms	Stato di calma, veglia, concentrazione, preparazione all'azione
Midrange Beta	16-20 Hz	16-20 Hz	60-80 ms	Stato di calma, veglia, concentrazione, preparazione all'azione
High Beta	21-30 Hz	21-30 Hz	60-80 ms	Stato di calma, veglia, concentrazione, preparazione all'azione

### Sensori EEG

These solid Ag-AgCl electrodes are used in many applications. They are low-profile, die to a thin coating of AgCl epoxy on the back side - on one side and the edges make skin contact. An adhesive rubber substrate is used to permanently couple and seal the electrodes to the skin.

Ag-AgCl electrodes are used in many applications. They are low-profile, die to a thin coating of AgCl epoxy on the back side - on one side and the edges make skin contact. An adhesive rubber substrate is used to permanently couple and seal the electrodes to the skin.

Low impedance output, 1.8V for mA load.

### Sensori Temperatura

LM85DZNPB Precision Centigrade Temperature Sensor

Calibrated directly in °C (and °F)  
 Linear +10.0mV/°C scale factor  
 0.5°C accuracy guaranteed (0°C to 125°C)  
 Rated from -55°C to +150°C range  
 Suitable for remote applications  
 Low cost device to match the time to market  
 Operates from 4.5 to 20V DC  
 Lead free Pb free RoHS compliant  
 Low self-heating, 0.05°C in still air  
 Non-linear only 0.1mV/°C typical  
 Low impedance output, 1.8V for mA load

Camera (Foto - Video)

F242 4mm diameter  
 E212 8mm diameter  
 C244 12mm diameter

Dimensioni: 5 x 5 x 3 mm  
 Ingrandimento: 15 - 60 volte  
 5,000,000 pixel

### Sensori ECG

These solid Ag-AgCl electrodes are used in many applications. They are low-profile, die to a thin coating of AgCl epoxy on the back side - on one side and the edges make skin contact. An adhesive rubber substrate is used to permanently couple and seal the electrodes to the skin.

Ag-AgCl electrodes are used in many applications. They are low-profile, die to a thin coating of AgCl epoxy on the back side - on one side and the edges make skin contact. An adhesive rubber substrate is used to permanently couple and seal the electrodes to the skin.

Low impedance output, 1.8V for mA load.

### Nanotubo di carbonio

Queste nanostrutture sono potenzialmente in grado di sopportare densità di corrente molto più elevate di quelle trasportate dalle attuali interconnessioni in rame, nonché di consentire un'ottima conduzione del calore.

Contrasti e connessioni.

Collegare il nanotubo a tutte le parti (Sensori, Interfacce, Display, ecc.)

Collegare i nanotubi a tutte le parti (Sensori, Display, ecc.)

### Intel Edison - WiFi - Bluetooth - Processor

Intel Edison is a dual-core processor for wearable computing, and is powered by a dual-core ARM Cortex-M4 and a single-core ARM Cortex-A9.

It features a 20-pin connector with the following pins: GND, VCC, TX, RX, SDA, SCL, I2C1, I2C2, I2C3, I2C4, I2C5, I2C6, I2C7, I2C8, I2C9, I2C10, I2C11, I2C12, I2C13, I2C14, I2C15, I2C16, I2C17, I2C18, I2C19, I2C20.

### Stetachable Battery

This technology allows for flexible, bendable, and stretchable batteries. It is based on a polymer electrolyte and a flexible electrode structure.

The battery is made of a thin, flexible, and stretchable polymer electrolyte and a flexible electrode structure.

### Display

AMOLED Display

Characteristics:

- Low power consumption
- Wide viewing angle
- Fast response time
- High contrast ratio
- Thin and flexible

Structure:

- Cathode Layer
- Organic Active Layers
- TFT array
- Substrate

### Sochi flessibili al grafene

Graphene is a single layer of carbon atoms arranged in a hexagonal lattice. It has a high surface area and is highly conductive.

It is used in flexible electronics for its excellent electrical and mechanical properties.

### Performance

Contrast: 10000:1  
 Display Technology: OLED  
 Pixel Density / Eye: > 30  
 Resolution: 1280x1024  
 Spatial Resolution (arc-min/pixel): 1.9  
 Stuck-off Subpixels / Eye: < 300

Exit Pupil (mm): 10  
 Eye Relief (mm): 23  
 Focus/Convergence: Infinity (factory adjustable)  
 Geometric Distortion: < 2%  
 Overlap: 100%  
 See-through Transmission: 48%  
 Total HFOV: 40°  
 Vertical FOV: 32°

### The International 10/20 System of Electrode Placement

This system is used to standardize the placement of electrodes on the scalp for EEG recordings. It is based on the International System of Units (SI).

The system uses a combination of letters and numbers to identify specific electrode locations on the scalp.

### Dimensione del testa umana della popolazione mondiale di diversi gruppi

Paese	Altezza (cm)	Larghezza (cm)
America	166	155
Germania	166	155
Italia	163	155
Francia	161	160
Giappone	155	155
Cina	160	160

### Realtà Virtuale

Virtual Reality (VR) is a simulated experience that can be similar to or completely different from the real world. It is achieved by projecting a virtual 3D image of a real-world environment onto a flat surface or a screen.

VR is used in various applications, including gaming, education, and training.



### Oképpil l-Futaba GY620

This is a high-performance LED display module used in various applications, including lighting and signage. It features a high resolution and a long lifespan.

It is made of high-quality materials and is designed to be durable and reliable.

