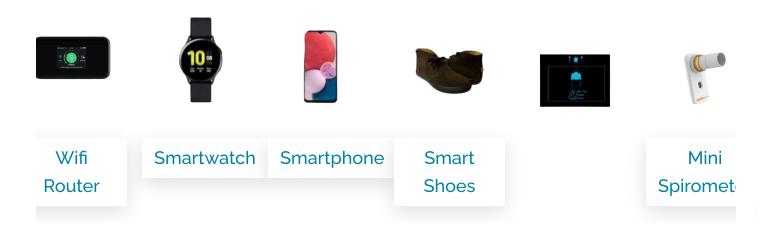
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Menu

ne TOLIFE sensor kit, used in Clinical Study A (a pservational prospective cohort study), gathers data comptoms, performance, electrophysiologic signals, ar a notice variables to estimate the health status of COP atients. The kit includes a WiFi router, smartwate martphone, smart shoes, smart mattress cover with edroom Box Case (detecting light, temperature, humidity, ar pise), and a mini-spirometer. Accessories include charger ables, and both paper and digital manuals. Data from the mart sensors are uploaded to the TOLIFE database via the viFi connection.





Wifi Router

omponents:

Wifi Router with integrated SIM

USB cable with power supply

ensure the entire kit inctions properly, the router just never be disconnected om the power supply and hould be located in the same nom or very close to the other evices.



Smartwatch



The Smartwatch app will hand sensor data pre-processing, storage, and transmission. It wi extract key parameters such as heart rate, blood oxygenation, sound intensity, physical activit index, ambient light, and proximity, ensuring efficient monitoring and data management.

Smartphone









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Menu

orage. It will extract arameters including physical ctivity, sound intensity, global position, light, proximity, emperature, and smartphone teraction, ensuring efficient onitoring and data anagement.

Smart Shoes

Components:

- Smart Shoes
- USB cable x2 with power supply







Smart shoes prototypes are tailored to the needs of the dat collection platform and will incorporate pre-processing algorithms. Parameters to be extracted include the duration of gait phases (stance, swing, double support), walking velocity, cadence, average steplength, total number of steps, and mobility index.





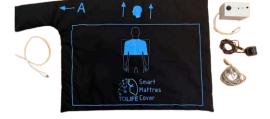
electronic unit

Bedroom Box Case

USB extension cable

Power supply unit

mart mattress prototypes will clude a pressure sensing atrix, triaxial accelerometers, nvironmental sensors, and a ocking station for data reprocessing and transmission. The parameters to be extracted clude sleep quality indices, abject sleeping position and totion, breathing rate with onea identification, heart rate, nvironmental sounds, emperature, humidity, and minosity.





DOWNLOAD THE TOLIFE KIT USER MANUAL

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Duration: 54 months

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PROJECT DETAILS

Project number: 101057103

Project Full Title: Combining Artificial

Intelligence and smart sensing TOward better management and improved quality of LIFE in chronic obstructive pulmonary disease

Project Acronym: TOLIFE

Topic: HORIZON-HLTH-2021-DISEASE-04-04

Type of action: HORIZON Research and

Innovation Actions

Granting authority: European Health and Digital

Executive Agency

Duration: 54 months



"Funded by the European Union. Views and opinions expressed are however those of the

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