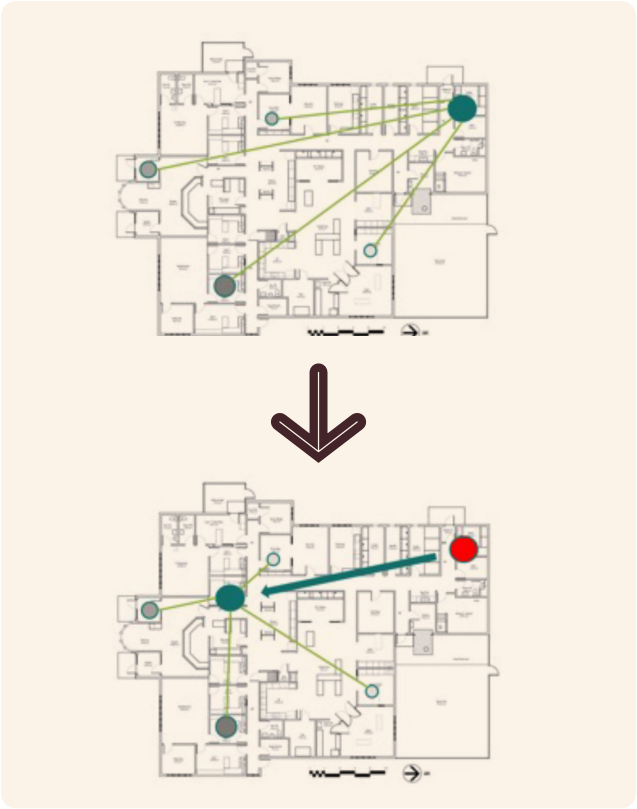
SEARCH NO FURTHER - CONCENTRATE ON YOUR PATIENTS

Are the lifesaving machines and materials where they're supposed to be, e.g. defibrillators or oxygen bottles? Are the patients getting the help they need, or is the nursing staff's time spent elsewhere?

The staff in hospitals spend their time at work doing reports, as well as nursing tasks. Unfortunately, time spent on other tasks eats up time that could be spent on patients. However, reporting is still an important part to ensure the right actions are taken and the right medicine is being administrated. In addition to all tasks, the staff spends time searching for equipment and machines, that easily get displaced around the hospital. These machines are mostly life-saving devices, needed to be located fast to ensure the best possible care for patients in a medical crisis.

HEAT MAPS SHOW WHERE, WHEN, AND HOW MUCH THE DEVICES ARE USED

When the device is stored in a place that is far away from where it is used, it can create an illusion of urgency and not having enough medical equipment and machines available. This could be solved by using Wirepas Massive for location data of the devices. This way, heat maps reveal the actual use levels for the devices, as well as critical information of where and when it has been used last. The data can be used to change storage location to a more central place, where the staff finds it easier and faster. When talking about life saving devices, like a defibrillator, every second counts.



In the floorplans above the used dots' size and colour refer to where they have been the most. The bigger the ball and the darker the colour, the more frequently it has been in that area. This could also be depicted as a heat map. The decision to change storage location of a machine has been taken based on the dots showing where it has been used the most.

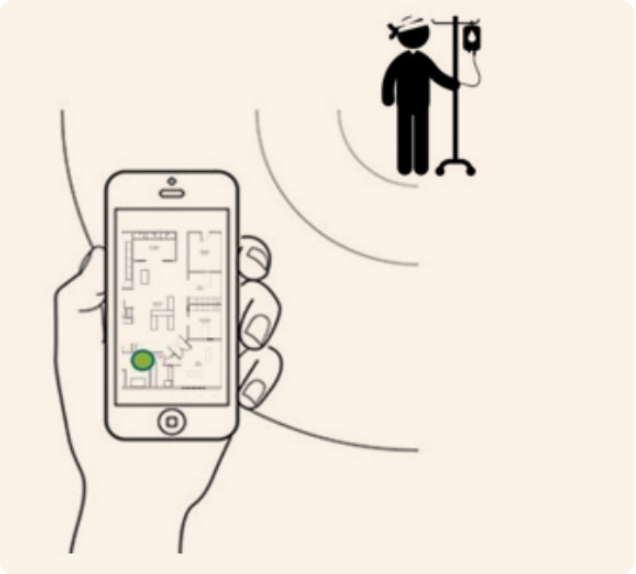
Used level data will also ensure proactive maintenance for the devices, and sensor data e.g. certain levels of vibration can predict failures, and these can be now measured with the same devices used for the tracking of the position.

WORK FLOW IMPROVEMENT IMPROVES ALSO SPIRITS AT WORK

The system enables faster and more efficient nursing and thus, a safer and more reassuring environment for the patients. More importantly, the staff can concentrate on actual nursing duties which enhances the wellbeing of the staff and patients. Personnel that is less stressed, frustrated and disrupted over lost equipment and searching after them, and able to concentrate on nursing tasks, cope better at work.

On the management level, the utilization level data of the medical devices can be used to guide purchases and improve utilization of current device pool. The data can also lead to process optimization and improving the quality of the nursing duties.

THE SAME SYSTEM USED FOR LOCATION DATA FOR THE PATIENTS AND EVEN VISITORS.



An application, completed with the hospital floorplan maps, can be downloaded on to a smart phone. The smart phone then receives Bluetooth signals from the fixed location devices. With the data in the signals the customers or patients' where-abouts can be shown on the smart phone floorplan. This will a allow the staff to track the given patient. To be able to use the tracking ability on a person, the person must have given consent to the tracking beforehand.

AUTOMATIC INVENTORY AND LOCATION DATA OF ALL MEDICAL DEVICES

Lost equipment and machines, and storing them in ill-chosen storages areas, can create the illusion of need for buying more. The need to keep tabs on where and when the devices are most used can be critical information for ensuring patient care processes to be in focus of the working time for the nursing staff in the hospital. Making all this data flow automatically is the safest way to keep the staff happy, investment levels stable and patients safe and sound.

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WIREPAS

We're changing the face of IoT. To set a new standard. To skip the bullshit. To get infinitely scalable connectivity. Gentle on your wallet and way better than cellular 5G. In a network that never fails. Without middlemen or infrastructure. Totally self-managing. Tailored for commercial and industrial applications. Just more than you need. For less. We give you very very good IoT.