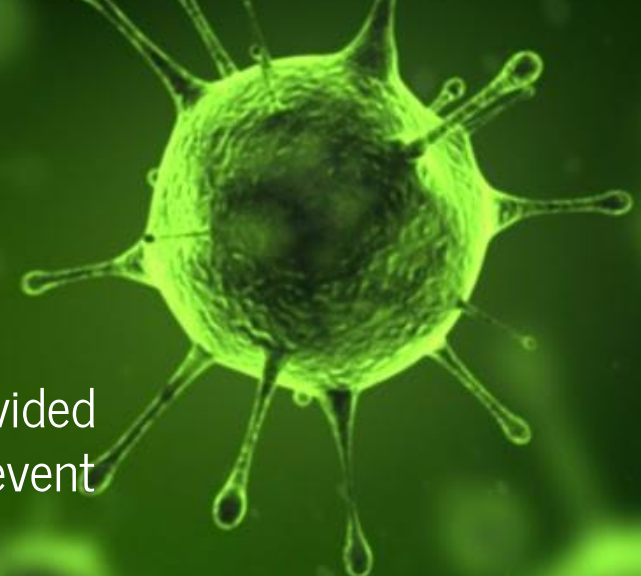# docoyo Contact Tracer

Confidently Implement Social Distancing - the Solution for Hotels

docoyo

Protect your Guests and Employees from Infections

The Covid-19 crisis hit the tourism industry hard. Although hotels provided comprehensive hygiene concepts and organisational measures to prevent infections, they are largely still either closed or lack guests.

The **docoyo Contact Tracer** provides an economical, easy to implement and at the same time highly effective solution. Using specialized Bluetooth-enabled wristbands, the solution helps guests and employees to practice social distancing employing both highest data privacy standards and a gamification approach. At the same time it allows hotel executives to monitor compliance to distancing rules, understand the chain of infection in case of positive test results and work closely together with medical authorities.

Convince staff, guests and last but not least politicians: It is possible to provide safe conditions for hotel stays and still trace back chains of infections.

Executive Summary

The docoyo Contact Tracer Solution for Hotels

The hotel provides staff as well as guests with special Bluetooth-enabled wristbands and creates a login to the Contact Tracer System. Both staff as well as guests can decide about their privacy settings. The system even works, if users decide not to disclose any personal data.

We recommend **complementing** the use of the docoyo Contact Tracer **with Covid-19 rapid tests.** Ideally, guests are tested at arrival or provide a negative test result that is not older than 24 hours. They should be tested again when they leave the hotel.
Hotel staff is ideally tested regularly, e.g. once a week.

The **wristband warns users** as soon as they have close contacts and **records near-distance contacts**. The collected data is regularly and contactlessly uploaded to the docoyo Back-end, where it is automatically deleted after 30 days.
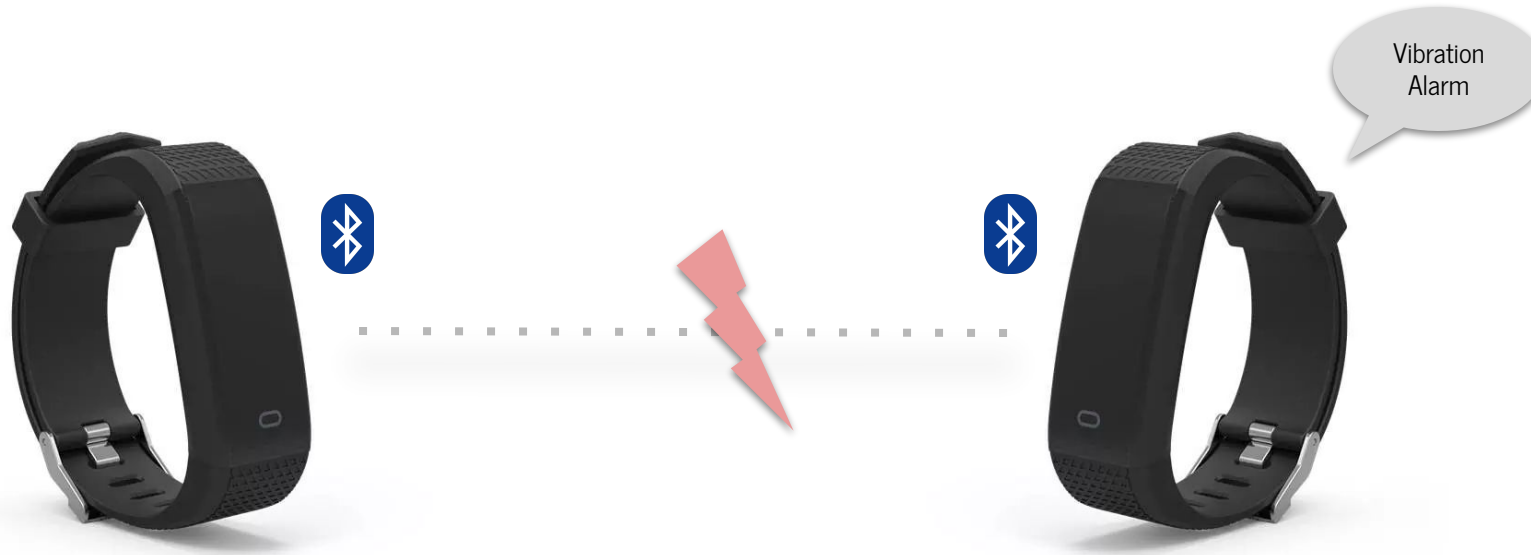
Every staff member as well as hotel guest receives an **individual log-in to the Contact Tracer System** and can **monitor his behaviour** regarding compliance to distancing rules. A gamified approach makes becoming better in sticking to rules a little fun.

Those in charge can monitor compliance to distancing rules and send out **anonymous reminder emails** to staff / guests that show too many near-distance contacts.

In case of a **proven infection**, we count on the understanding and support for each other in the fight against the pandemic: The system never discloses personal health data. So staff and guests should be friendly asked to report a positive Covid-19 test result to the system, which can then send a **warning email to all those that were in close contact to the one infected** so that they can be immediately **quarantined**.

How it Works

A special Bluetooth-enabled wristband detects near-distance contacts.

Vibration Alarm

Technical Specs:

- Ergonomic wristband
- Weight: 24.5g
- Bluetooth Low Energy 5.0
- -20°C to +60°C
- Rechargeable via USB A port in 2h
- Battery life 2-5 days (depending on the number of contacts)
- IP67 Waterproof
- Enters sleep mode when no movement is detected
- Switch-on with touch button
- Alarm sensitivity can be configured via docoyo Terminal App

Both staff and hotel guests wearing the Bluetooth-enabled **Social Distancing Wristbands** are automatically warned with a vibration alarm in case they come too close to other people wearing the wristband. In addition, a red light supports the alarm state.

All detected near-distance contacts are stored on the wristband every 5 seconds. The wristband can store up to 20.000 data points. This is sufficient to cover several weeks in normal hotel and business environments.

How it Works

Data is uploaded to the docoyo Back-end via Android App.
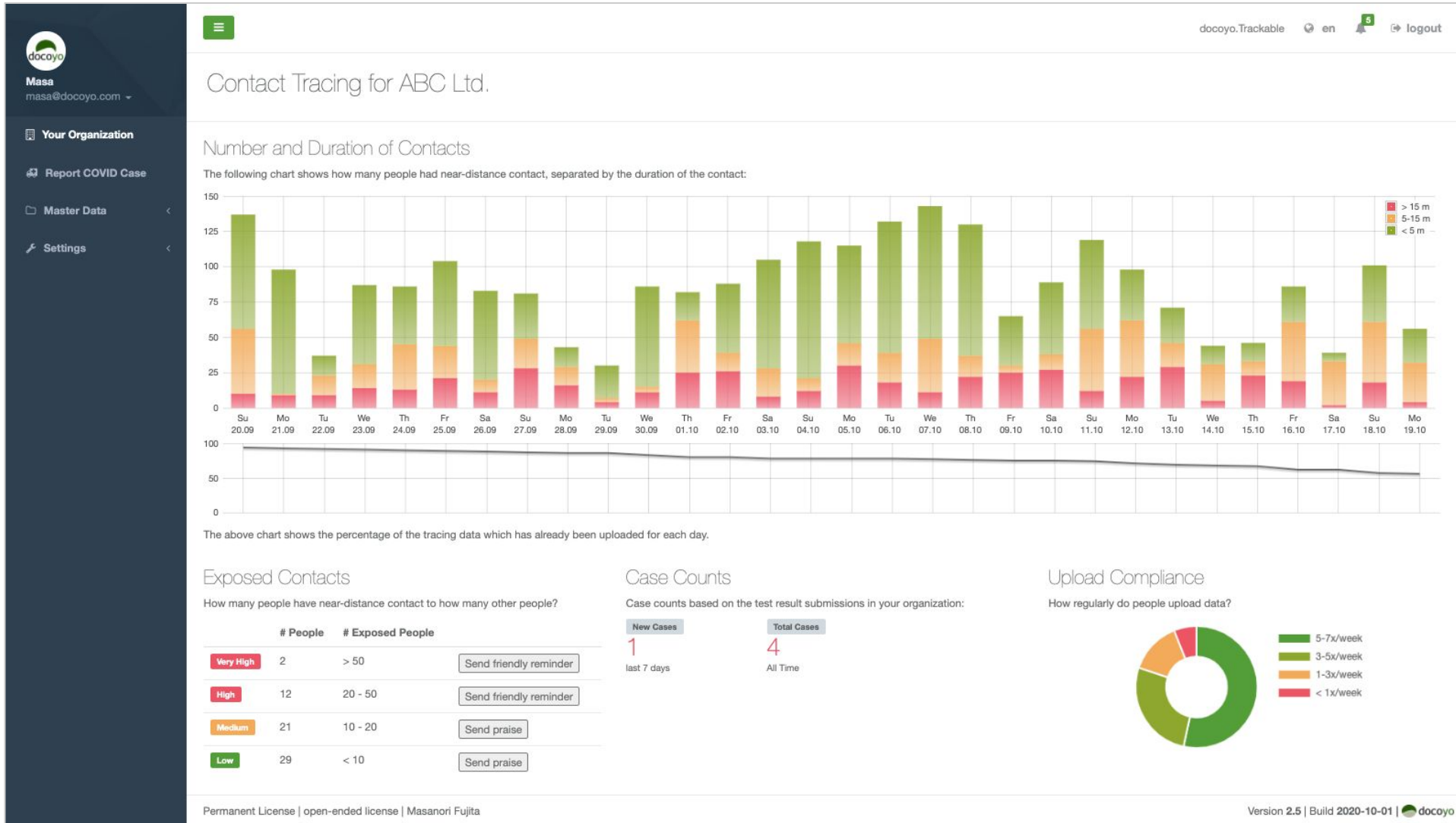

Back-end

Staff and guests should upload the collected data from the wristband to the docoyo Back-end using the **docoyo Terminal App** once a day. A wall-mounted Android smartphone or tablet is all you need to set up an upload terminal accessible for all, e.g. close to entries /exits or other central points.

The **docoyo Terminal App** provides a contactless workflow. As soon as users hold their wristband in close distance to the terminal device, the download process starts automatically and the data is uploaded to the Back-end. It only takes a few seconds to transfer a few hundred data points from the wristband to the back-end.

Data is uploaded securely with TLS encryption. In the back-end, personal data is strictly separated and automatically deleted after the retention time of 30 days. To protect the privacy of staff and guests, access policies and well-designed APIs make sure that even administrative users cannot access the raw contact data at any time.

Social Distancing Report at Hotel Organization Level

Monitor compliance with distancing rules

So, you have set up distancing rules in your hotel. But do you know whether people stick to these rules? Use this dashboard to continuously monitor compliance.

As organization user, you can monitor how many near-distance contacts have occured in the past 30 days.

You can also send a friendly reminder anonymously via email to those who had a high number of near-distance contacts.

The dashboard also helps you to understand whether people regularly upload the data from the wristbands.

For privacy reasons, the system never gives access to the contact data of individuals.

Social Distancing Report for Individuals

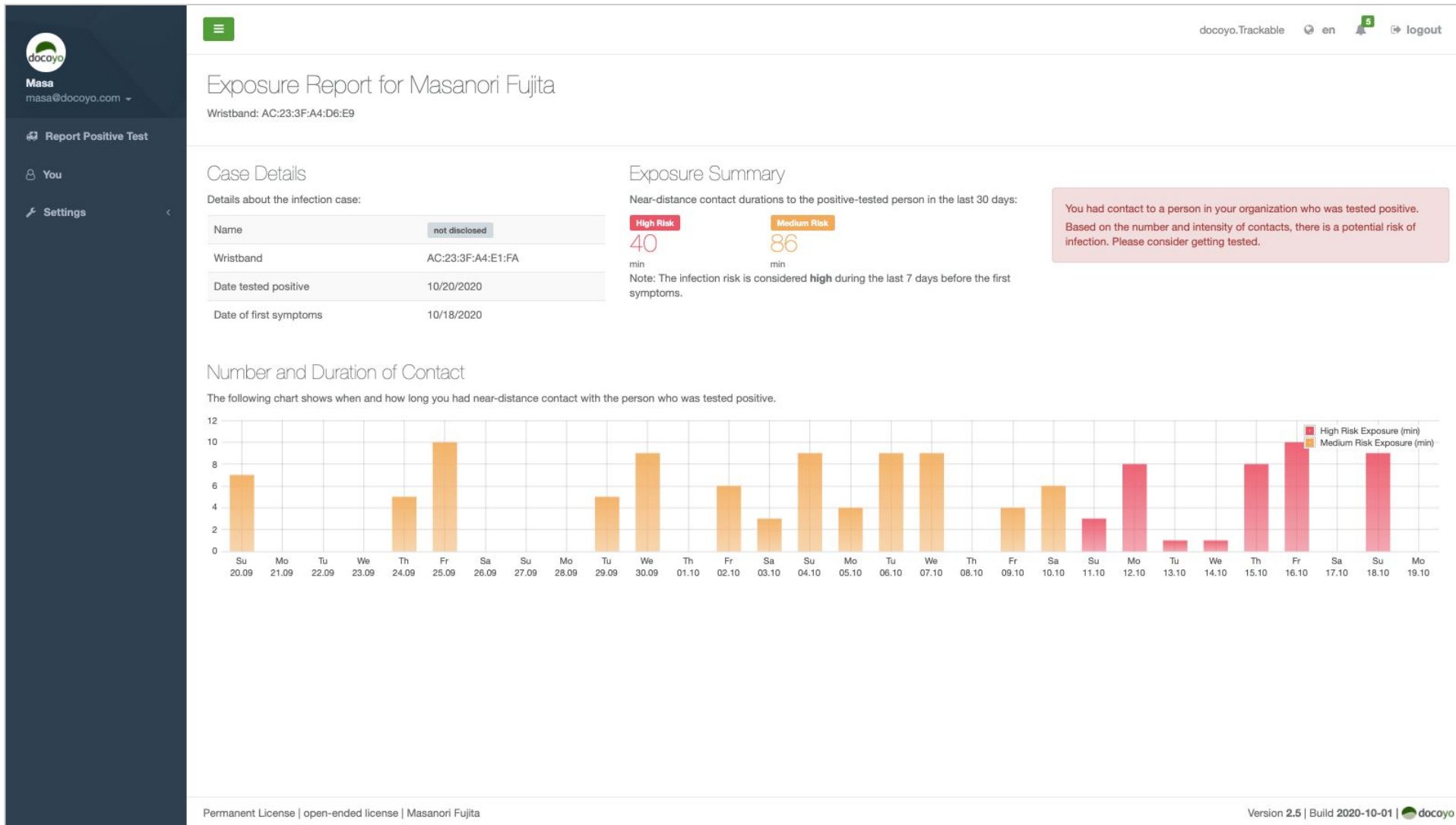Motivate staff and guests to improve social distancing

Individual users can check their own social distancing behavior and compare themselves against others.

To motivate individuals to become even better in social distancing, a "Social Distancing Score" is calculated from the number and duration of contacts. There is also a score that is higher the more regularly the wristband data is uploaded.

As individual, you can see in detail how many near-distance contacts you had in the past 30 days.

Exposure Report

Notify people when they had contact to a person who was tested positive

When a positive test result is submitted to the system, people who had contact to this person get notified via email. Following the link in the email, individuals can see on this report how much contact they had to the person who was tested positive.

Relevant details of the submitted case like the date of the test or the date at which first symptoms appeared the first time are provided based on the selected privacy settings.

The report summarizes how many and how long an individual hat near-distance contact in the days before the positive test result.

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