



FACTSHEET / PRACTICE

## Large events despite the pandemic: Intelligent Technology makes it possible!

How do we prevent uncontrolled spread in a pandemic? Currently the answer when it comes to visiting stadiums is: Limit attendance, mandate mask wearing, keep social distance. But beyond this strategy, based essentially on spacial separation, NTT DATA offers an intelligent solution with "Back2BigEvents, using a combination of state-of-the-art technologies: Biometry, Indoor Navigation and Tracking. Given the approval of the government authorities, full stadiums and fan cheering will once again be possible – without having to keep your distance and wear a mask.

The all-in-one solution for large events' organisers

### Back2BigEvents

**Protect & response.** The new solution from NTT DATA combines three innovative technologies into a so far one-of-its-kind solution: BioBarcode, Indoor Navigation and Contact Tracing with Tracking. The main aim of "Back2BigEvents" is to protect spectators during their stadium visit and to respond when subsequently necessary – while complying with all data protection requirements.

### BioBarcode – but secure!

**BioBarcode.** The BioBarcode is an extension of a personalised ticket used to encrypt and encode the stadium guest's biometric data and integrate their health status. Respective scanner hardware at the admission machines identifies these codes. In order to gain access, one must fulfil three prerequisites:

1. Valid personalised ticket
2. ID verification via facial recognition (selfie)
3. Evidence of a current negative Corona test, vaccination certificate or certificate of health

3 in 1

The new NTT DATA solution  
Combines three innovative  
technologies into a so far  
one-of-its-kind solution:  
BioBarcode, Indoor Navigation  
and Tracking.

**Effective data protection.** All biometric information is stored in an encrypted high-density barcode, found exclusively in the possession of the data subject. Only devices with the correct decryption key can read the stored information.

## Trust Anchor

All data are encrypted and electronically signed. Origin, integrity and trustworthiness are thereby guaranteed.

With the "Back2BigEvents" intelligent solution, large events can be safely held.

### 3 Relevant Data

The data related to a use case is added to the BioBarcode.



### 1 Passport/ID

The identity of the biobarcode owner is verified by identification documents, such as passport or ID card and with facial recognition.

### 2 Biometric Identification

An integrated biometric template prevents identity fraud.

## Indoor Navigation & Contact Tracing

With Indoor Navigation, stadium visitors can find their "points of interest" without detours, e.g. entrances, seats, food stands, toilets and exits, which minimises unnecessary interactions with other fans. In addition, tracking enables so-called contact tracing – and not just with radio signals, as with bluetooth, but other patented components of an inertial engine: The distances between the anonymised IDs of spectators are tracked according to the RKI rules and transmitted to the health authorities if necessary.

## Safe. Simple. Better.

Independent of device

■ A Smartphone is not necessarily required for our solution – it is also available on a watch.

Improved signal

■ Thanks to additional movement sensors, the often unstable Bluetooth signal can be filtered more strongly, which enables better contact detection.



A NTT DATA Partner

## Advantages for all participants

### 1. For fans and visitors.

The use of "Back2BigEvents" makes visiting sports, leisure, cultural and religious events possible again. The risk of infection is reduced to a minimum.

### 2. For events' organisers.

With our solution, all legal requirements can be met to prevent the uncontrolled spread of the virus. Even large events filled to a 90% capacity of the venue are thereby possible.

### About NTT DATA

NTT DATA – a part of NTT Group – is a trusted global innovator of IT and business services, headquartered in Tokyo. We help clients transform through consulting, industry solutions, business process services, IT modernization and managed services. NTT DATA enables clients, as well as society, to move confidently into the digital future. We are committed to our clients' long-term success and combine global reach with local client attention to serve them in over 50 countries.

Further information can be found at [de.nttdata.com](https://de.nttdata.com)

### → Get in Contact

Your contact  
Athanasios Andreou  
Consultant Sports Business  
[Athanasios.Andreou@nttdata.com](mailto:Athanasios.Andreou@nttdata.com)