



NSA FIS Education Session

*2022 FIS Covid-19 Winter protocol and
FIS Passport update*



Dimitrije **LAZAROVSKI**

FIS Development Manager

Housekeeping



All participant cameras and
microphones have been muted by
default



Please share your questions with us
using the chat function to the right of
your screen

Agenda

Opening

- Dimitrije Lazarovski, *FIS Development Manager*

Welcome note

- Michel Vion, *FIS Secretary General*

Covid-19 update

- Prof. Percy A. Knolle, *MD, FIS Covid-19 Medical Support Group*

FIS Passport update

- Armin Hessenberger, *Head of Project Management at SkiDATA*

Questions and Answers

Closing Remarks

- Dimitrije Lazarovski, *FIS Development Manager*



Michel VION

FIS Secretary General



Prof. Percy A. Knolle

KNOLLE

MD, FIS Covid-19 Medical Support Group

COVID-19 - what causes severe disease and how can we prevent it?

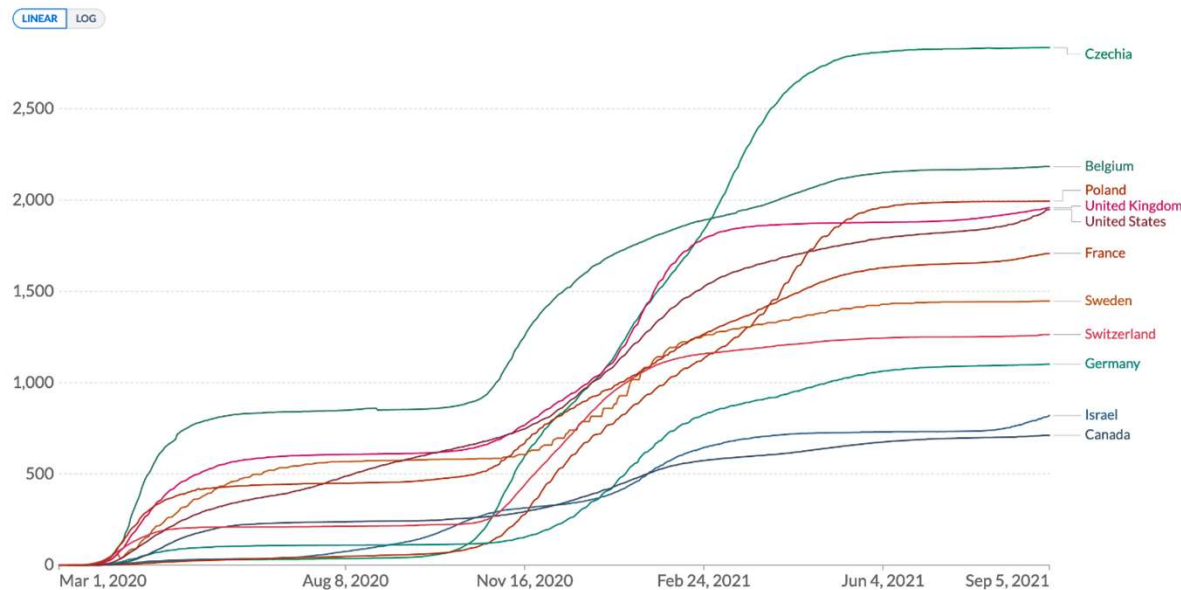
Prof. Percy A. Knolle, MD,
FIS Covid-19 Medical Support Group

The consequences of the pandemic

Cumulative confirmed COVID-19 deaths per million people

Limited testing and challenges in the attribution of the cause of death means that the number of confirmed deaths may not be an accurate count of the true number of deaths from COVID-19.

Our World
in Data



Source: Johns Hopkins University CSSE COVID-19 Data

CC BY

Confirmed deaths:

➤ 4.7 Mio

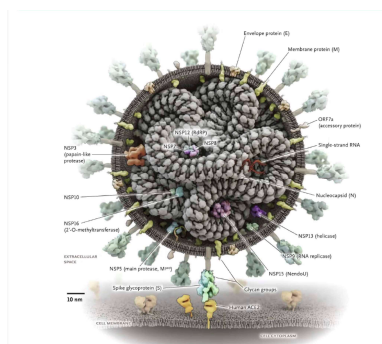
Estimated deaths:

➤ 15.4 Mio

Who dies:

- everybody can
- older and diseased more likely

SARS-CoV-2



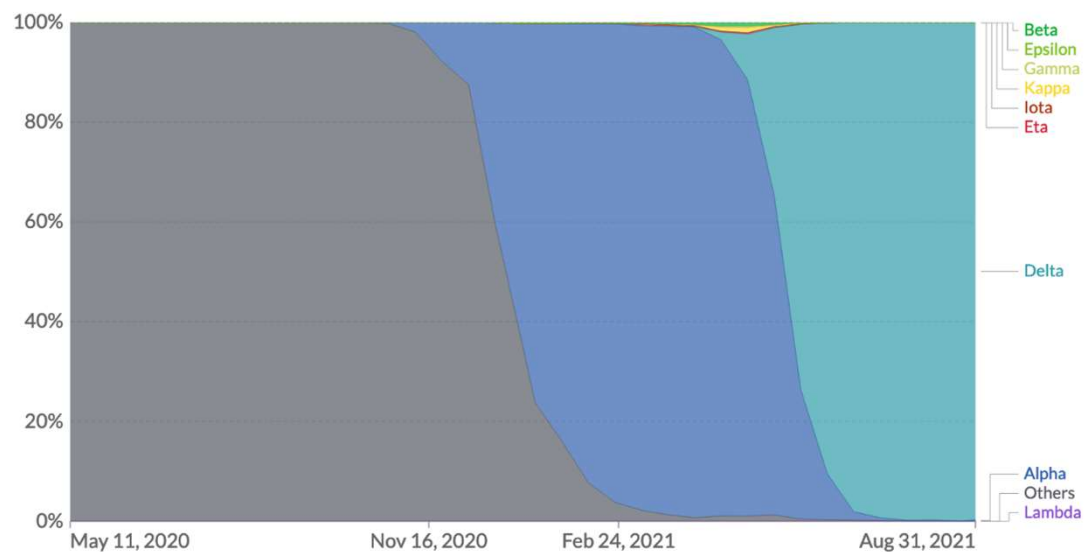
&
mutants

SARS-CoV-2 variants in analyzed sequences, United Kingdom

The share of analyzed sequences in the last two weeks that correspond to each variant group. This share may not reflect the complete breakdown of cases since only a fraction of all cases are sequenced.

Our World
in Data

⇌ Change country



Source: CoVariants.org and GISAID - Last updated 1 September 2021, 21:00 (London time)

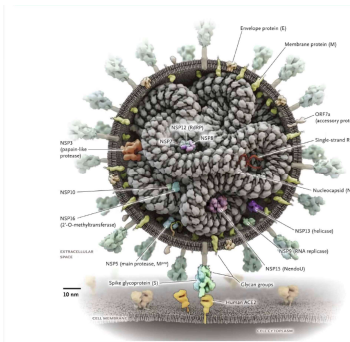
OurWorldInData.org/coronavirus • CC BY

SARS-CoV-2

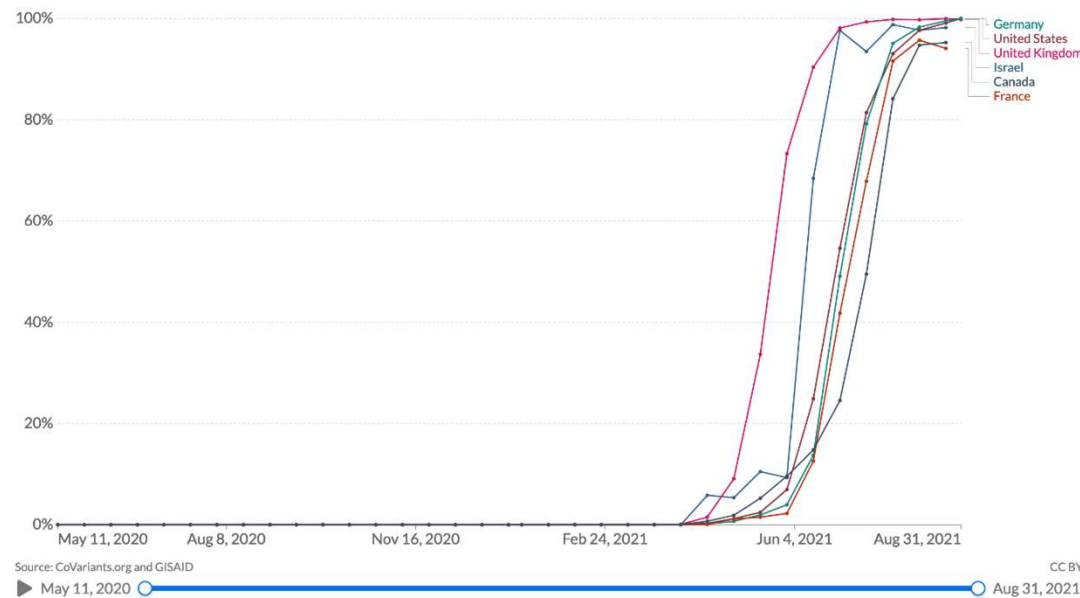
Share of SARS-CoV-2 sequences that are the delta variant

Shown is the delta variant's share of total analyzed sequences in the last two weeks. This share may not reflect the complete breakdown of cases, since only a fraction of all cases are sequenced.

Our World in Data



&
variants



original (B1.177)

$R_0 = 2-3$

Delta variant

$R_0 = 6.4$

Replicates better ->
higher numbers

Spreads from infected
persons without
symptoms

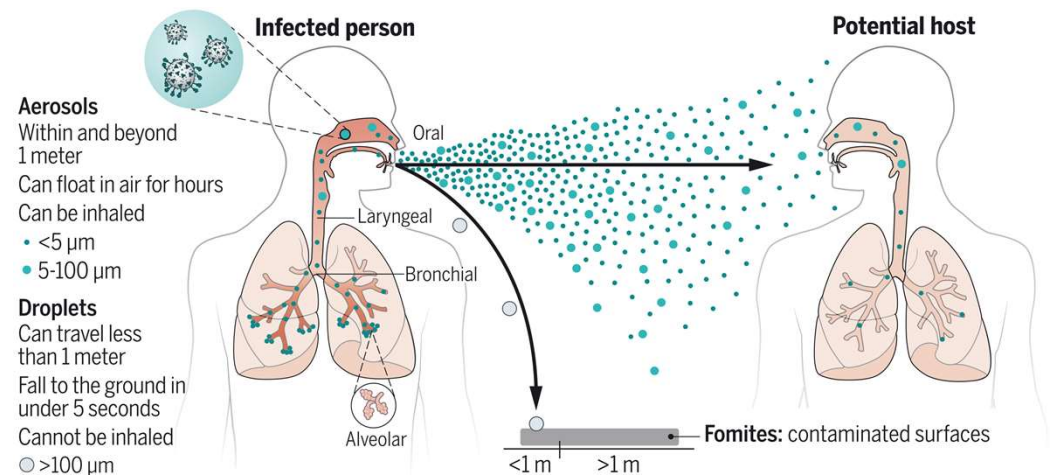
More infectious new mutants will spread rapidly

Infection with SARS-CoV-2

- Airborne transmission through aerosols
 - In enclosed spaces
 - Prolonged exposure to aerosols
 - poor ventilation
 - **1.000 viral particles suffice for infection**

- Spread of SARS-CoV-2 before symptoms occur

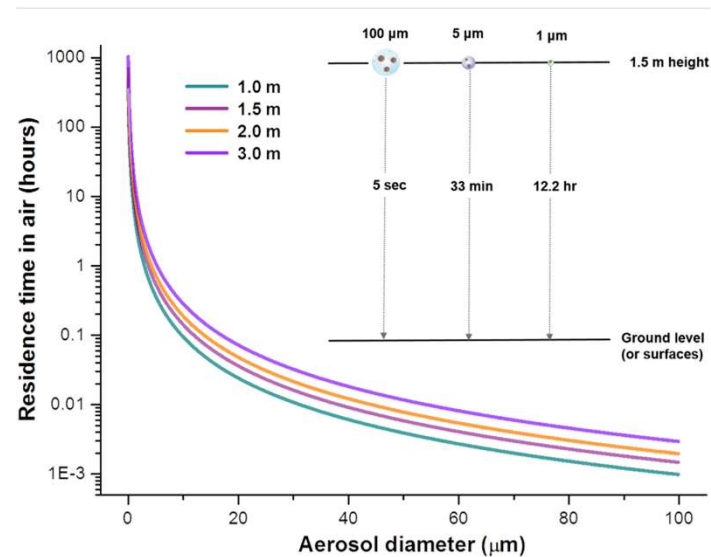
- High viral load early during infection (**100 Mio viral particles on a nasopharyngeal swab**)
- Spread through aerosols generated by breathing/talking



Wang et al. Science 2021

Infection with SARS-CoV-2

- Airborne transmission through aerosols
 - In enclosed spaces
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Wang et al. Science 2021

How is SARS-CoV-2 infection detected?

- PCR test – involves amplification step ($2^{40} = 1.0995116e+12$ or 1.099.511.600.000 fold amplification)
 - high sensitivity (low rates of false negative or positive results)
 - Good for 72 hrs
- Antigen test – direct detection of SARS-CoV-2 – no amplification
 - low sensitivity (high rates of false negatives and also false positives)
 - Good for 24 hrs

SARS-CoV-2 infection -> COVID-19

SARS-CoV-2 infection

- Oligosymptomatic/asymptomatic course
- 1-7(10) days after infection
- Control of infection by the immune response against the virus
- Clearance of the virus from infected cells

interferons-> controlling viral replication

T cells -> killing infected cells

B cells – making antibodies against the virus

?

COVID-19

- Mild disease course
- Moderate disease course
- Severe disease course
- death

Not the virus – an uncontrolled immune response destroys tissue and organs

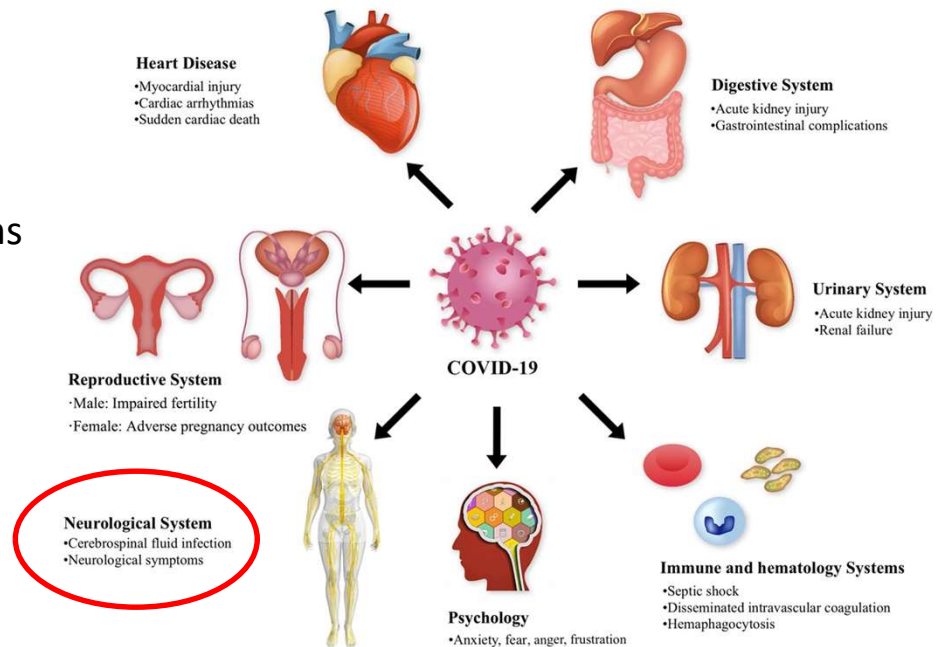
Long COVID (>6 months after infection)

- fatigue
- Reduced physical fitness
- Selected organ deficits

COVID-19

an unpredictable disease

- Unpredictable disease course
- Rapid deterioration of organ functions
- Severe damage to the following organ systems
 - Lung – respiratory failure
 - Kidney – organ failure
 - Heart – severe inflammation
 - Liver – organ damage
 - Nervous system
 - Vascular system
 - Reproductive system



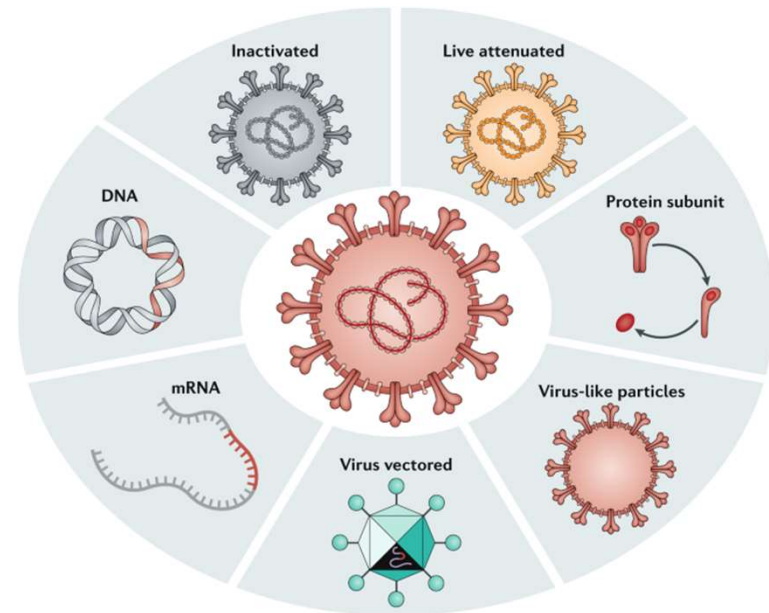
Zheng J Med Virol 2020

Fighting the pandemic

- **Testing**
 - allows to identify infected persons
 - Quarantine measures to prevent further infections
 - does not prevent disease after infection
- **Treatment options**
 - symptomatic treatment
 - no real treatment exists for COVID-19
- **Vaccination**
 - reduces infection
 - reverts development of disease

How do COVID-19 vaccines work?

- Dead virus (inactivated SARS-CoV-2)
- SARS-CoV-2 proteins & adjuvant
- Viral vectors (adenovirus) delivering SARS-CoV-2 genes
- mRNA vaccines coding for SARS-CoV-2 proteins



Dai et al Nat Rev Immunol 2020

How does the COVID-19 vaccine work?

- Dead virus (inactivated SARS-CoV-2)
 - SARS-CoV-2 proteins & adjuvant
 - Viral vectors (adenovirus) delivering SARS-CoV-2 genes
 - mRNA vaccines coding for SARS-CoV-2 proteins
- Immune response to SARS-CoV-2
- Antibodies
 - T cells
 - Long-lasting protection (>6-12 months)

How can you prevent getting infected?

- Stay home
- Follow rules
 - Distance (at least 1.5 m)
 - Wear mask
 - Hygiene
- Get vaccinated

How can you prevent spreading SARS-CoV-2?

- Stay home
- Follow rules
 - Distance (at least 1.5 m)
 - Wear mask
 - Hygiene
- Get vaccinated

By getting vaccinated

- You protect yourself (even if you had SARS-CoV-2 infection)
 - >50% from infection (delta variant of SARS-CoV-2)
 - >90% from disease
- You protect others
- You prevent SARS-CoV-2 from
 - spreading (stop the infection chain)
 - undergoing mutation (help prevent development of dangerous variants)

COVID-19 vaccines are safe

some adverse effects have been observed

- All vaccines may cause transient symptoms – no link to induction of protective immunity
 - headache
 - muscle ache
 - fever
 -
- Vector based vaccines are more prone to adverse effects
 - may cause thrombotic events (<1:50.000)
- mRNA vaccines are considered safe

Strategy for prevention of infection and disease

what can you do?

- wear masks when inside (always – includes elevators and restrooms)
- keep your distance to other persons
- follow hygiene rules
- **get vaccinated**
 - Vaccination protects the vaccinee (from infection and severe disease)
 - Vaccination breaks the infection chain (and thereby spread of SARS-CoV-2)
 - Vaccination protects those who cannot be vaccinated or do not respond to vaccination

Together, we can control spread of SARS-CoV-2 and prevent COVID-19 cases by
following the rules & getting vaccinated

Thank you for your attention!

Questions?!



Armin HESSENBERGER

Head of Project Management at SkiDATA



FIS Passport update

Armin Hessenberger, Head of Project Management at
SkiDATA

FIS PASSPORT BASIC INFORMATION / REMINDER

- Basic Registration with Code (FIS2022)
- Apply for events
- Select Events participating
 - a. complete webform with Covid-19 Test results
 - b. health questionnaire per event
- Status reviewed for participant by Event as defined by rules
- Dedicated portal for LOC's and NSA's

FIS PASSPORT UPDATE 2021/2022

- Green Pass Validation:
 - a. Vaccine or recovery validation on main registration page
 - b. PCR Test validation prior event
 - c. PCR/Antigen Test validation during event
- Update required information
 - a. Force participants to update missing information on main registration page
- Health Questionnaire

FIS PASSPORT UPDATE 2021/2022

- LOC portal
- NSA portal
- API / Interface for the LOCs
 - a. Availability to connect local accreditation system to the FIS Passport
- Staff ID and the FIS Code validation

FIS PASSPORT – GREEN PASS VALIDATION

Vaccine or recovery validation on main registration page

Successful validation

3. Covid Health Status

Are you vaccinated or recovered?: *

Yes

Please upload your vaccination or recovery certificate: *

Choose file: Vaccine Certificate.pdf

Only image or PDF files are allowed

Certificate check successful

Certificate Date: 2021-10-01 12:00:00
Vaccine type: BioNTech and Pfizer
Vaccine dose: 2/2

Unsuccessful validation

3. Covid Health Status

Are you vaccinated or recovered?: *

Yes

Please upload your vaccination or recovery certificate: *

Choose file: Vaccine Certificate.pdf

Only image or PDF files are allowed

Your covid certificate could not be validated. Please fill in the required data below

Please select the type of certificate: *

Vaccination

Date and time of vaccination or recovery: *

23/06/2021 12:00

Please select the date and time of your recovery or your last vaccine dose

Vaccine type: *

BioNTech and Pfizer

Please select the vaccine dose: *

Dose 2/2

- Upload COVID Certificate
 - a. EU Digital COVID Certificates can be validated
 - b. All others cannot be validated → manual input required
- Validity rules
 - a. The valid duration can be configured on a global level for vaccines and recoveries

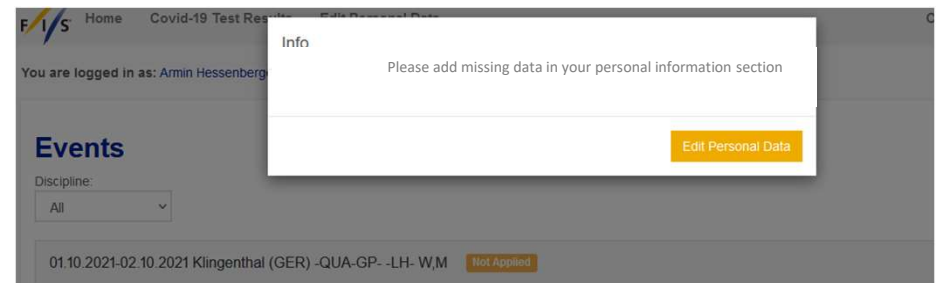
FIS PASSPORT – GREEN PASS VALIDATION

PCR Test validation prior event and during event

- Prior event:
 - a. Upload COVID Certificate
 - b. EU Digital COVID Certificates can be validated
 - c. All others cannot be validated → manual input required
- During event
 - a. Upload COVID Certificate
 - b. Integrated Testing Software for LOCs

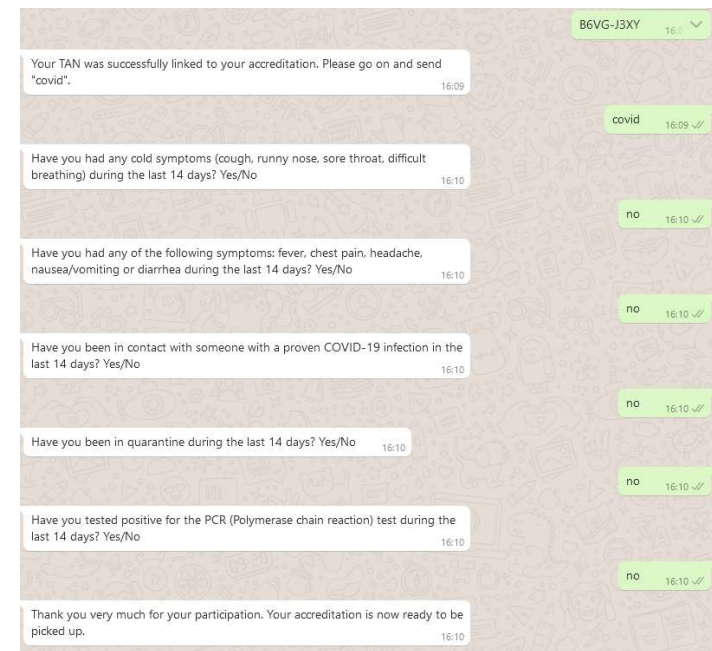
FIS PASSPORT - Update required information

- Participants needs to enter missing information first, before entering the event application page
 - a. Main COVID information
 - b. Staff ID (if applicable)
 - c. FIS Code (if applicable)



FIS PASSPORT - Health Questionnaire UPDATE

- Enable - Disable Chatbot per event
- Configurable Sending time (outside CET Zone)



Chatbot interface showing a series of questions and answers:

- Question: "Your TAN was successfully linked to your accreditation. Please go on and send 'covid'." (16:09)
- User Answer: "covid" (16:09)
- Question: "Have you had any cold symptoms (cough, runny nose, sore throat, difficult breathing) during the last 14 days? Yes/No" (16:10)
- User Answer: "no" (16:10)
- Question: "Have you had any of the following symptoms: fever, chest pain, headache, nausea/vomiting or diarrhea during the last 14 days? Yes/No" (16:10)
- User Answer: "no" (16:10)
- Question: "Have you been in contact with someone with a proven COVID-19 infection in the last 14 days? Yes/No" (16:10)
- User Answer: "no" (16:10)
- Question: "Have you been in quarantine during the last 14 days? Yes/No" (16:10)
- User Answer: "no" (16:10)
- Question: "Have you tested positive for the PCR (Polymerase chain reaction) test during the last 14 days? Yes/No" (16:10)
- User Answer: "no" (16:10)
- Final Message: "Thank you very much for your participation. Your accreditation is now ready to be picked up." (16:10)

FIS PASSPORT – NSA portal UPDATES

- Display status of each participant depending on COVID rules incl. automated updates
- PCR Test indication
 - a. Pre-event PCR test is done
 - b. Onsite PCR/Antigen Test is required
 - c. Display number of additional PCR tests

NSA Overview

Name: NSA Test
Country: Austria

Filter Event:

Filter Gender:

All

All

Filter

Download as CSV

Download as Excel

First and Middle Name	Last Name	Gender	Event	Passport ID	Health Questionnaire	PCR Test	Latest Test Date	Latest Test Type	Latest Test Result
						<div>Event Test</div> <div>Yes or No</div>			<div>Refresh</div>

Download as CSV

Download as Excel

Refresh

FIS PASSPORT – Staff ID and FIS Code validation

- Automated validation of Staff ID and FIS Code via a feed from FIS Entries system
- Explanation where Staff ID can be found:

[https://assets.fis-ski.com/image/upload/v1626442771/fis-prod/assets/FIS On Line entries - Staff ID location.pdf](https://assets.fis-ski.com/image/upload/v1626442771/fis-prod/assets/FIS_On_Line_entries_-_Staff_ID_location.pdf)

Staff ID: * Staff ID not valid – please enter a valid one

12346

i Provided by the FIS Competition online entries, please ask your Competition entries manager

FIS PASSPORT UPDATE TIMELINE

- Green Pass Validation: → 8th October 2021
 - a. Vaccine or recovery validation on main registration page
 - b. PCR Test validation prior event
 - c. PCR/Antigen Test validation during event
- Update required information → 8th October 2021
 - a. Force participants to update missing information on main registration page
- Health Questionnaire Updates → 15th October 2021

FIS PASSPORT UPDATE TIMELINE

- LOC portal → 8th October 2021
- NSA portal → 8th October 2021
- API / Interface for LOCs Update → 15th October 2021
 - a. Availability to connect local accreditation system to FIS Passport
- Staff ID and FIS Code validation → tbd.



Questions and **ANSWERS**



Dimitrije **LAZAROVSKI**

FIS Development Manager



Thank
YOU