STATENS SERUM INSTITUT

DASHBOARDS – CONNECTING PEOPLE

19th of April 2022

Emily Dibba White
(emdw@ssi.dk)
Statens Serum Institut
Denmark

CONTENT

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- How it all started
- SCRUM
- Involving stakeholders
- Communication
- Some of all the bridges…
- Lessons learned
- Presentation of the danish Covid-19 dashboards

HOW IT ALL STARTED

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THE DAILY COVID-19 REPORT

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COVID-19 i Danmark

Epidemiologisk overvågningsrapport

19-05-2020 – data opdateret kl. 08:00

Oversigt

	Bekræftede tilfælde	Indlagte i dag*	Heraf indlagte på intensiv afdeling*	Heraf indlagte på intensiv og i respirator*	Overstået infektion**	Døde (%)***
Antal i dag	11.044	141	25	18	9.416	551 (5,0)
Ændring siden i går	76	-3	-1	-3	115	3

* Kilde: Data er indrapporteret fra regionernes IT systemer og er et øjebliksbillede

** Patienter med påvist COVID-19 infektion kan tidligst klassificeres som "overstået COVID-19 infektion" 14 dage efter den positive test, hvilket betyder, at der er mindst 14 dages forsinkelse på dette tal. Se definitionen af "overstået COVID-19 infektion" i *Epidemiologisk trend og fokus* af 1. april 2020.

*** Opgørelsen omfatter dødsfald, der er registreret indenfor 30 dage efter påvist COVID-19-infektion. COVID-19 er ikke nødvendigvis den tilgrundliggende årsag til dødsfaldet. Dødsfald er hentet fra CPR-registret og Dødsårsagsregistret.

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Epidemiologisk information

Fra slutningen af februar til den 11. marts testede man primært personer med både milde og mere alvorlige luftvejssymptomer, der rejste til Danmark fra lande med høj smittespredning med COVID-19. Dette skete som led i inddæmningsfasen.

Fra den 12. marts overgik Danmark til afbødningsstrategien, hvor man i første omgang testede personer med indlæggelseskrævende symptomer for COVID-19. Efter den 12. marts er teststrategien løbende blevet justeret. Udover personer med indlæggelseskrævende symptomer, testes personer med COVID-19-symptomer, hvor der over tid ses forværring, hvor personen tilhører gruppen af særligt sårbare individer, samt gravide med symptomer på COVID-19.

Fra den 1. april 2020 er der udført udvidet testning så bl.a. patienter med milde symptomer samt ansatte i sundheds- og ældresektroen med milde symptomer og som har tæt kontakt til borgere eller patienter kan testes. Derudover kan de praktiserende læger efter vurdering af patienter med milde symptomer også henvise disse til testning. Disse ændringer af teststrategien betyder at antal bekræftede tilfælde ikke kan sammenlignes over tid.

Antal testede personer er defineret som antal personer, for hvem der foreligger et prøveresultat kl. 08:00

COVID-19 DASHBOARD

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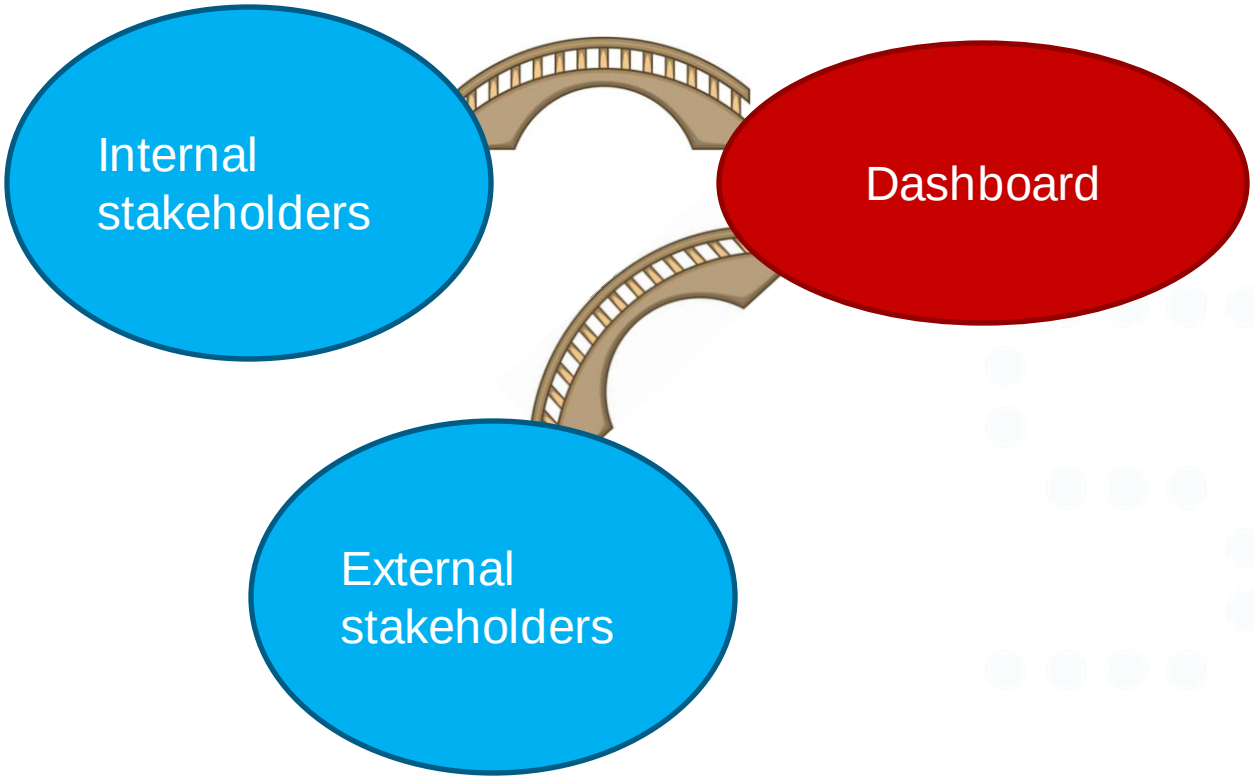
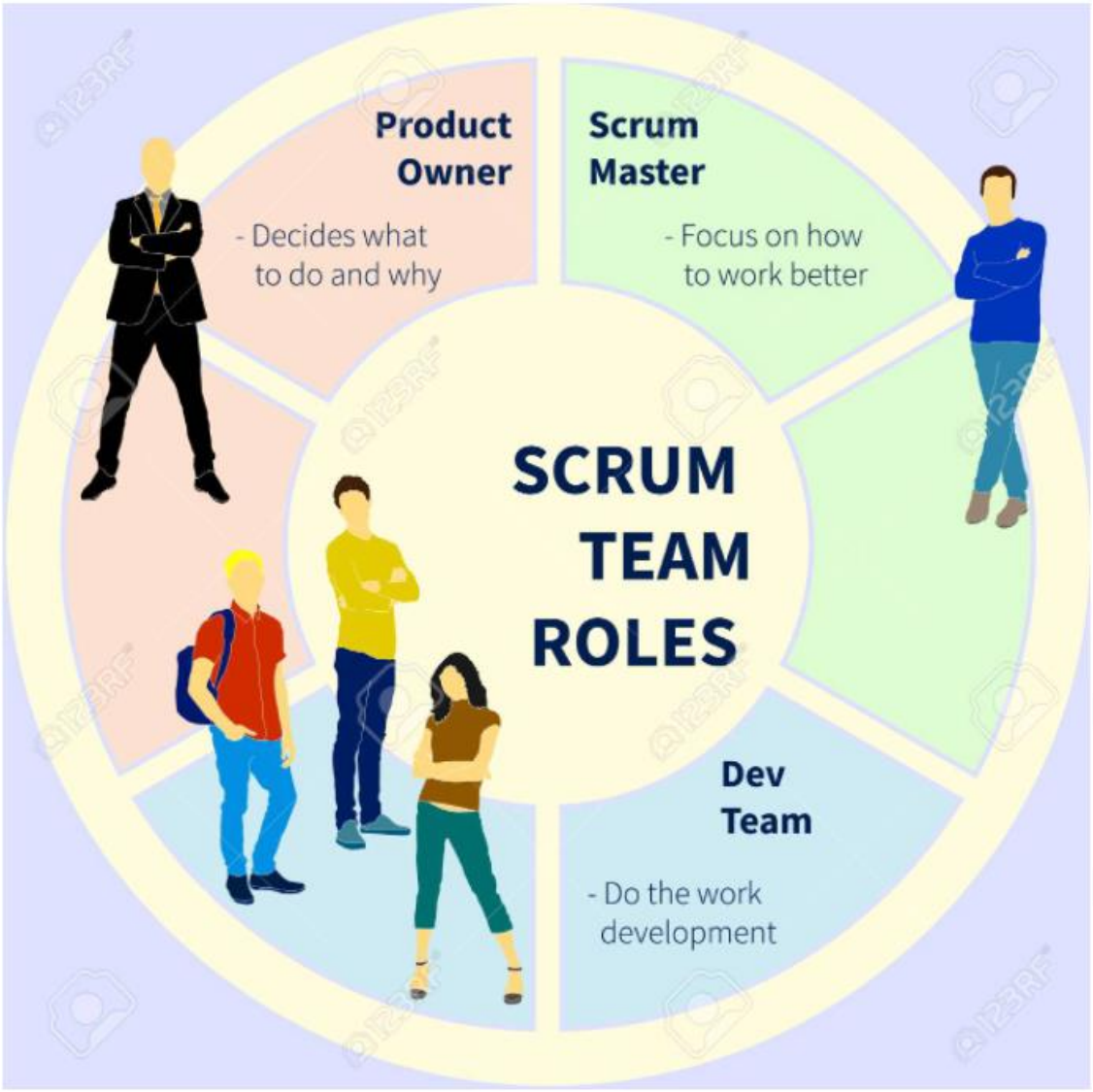


SCRUM-TEAM


Product Owner
- Decides what to do and why
Scrum Master
- Focus on how to work better
SCRUM TEAM ROLES
Dev Team
- Do the work development

SCRUM

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- We used SCRUM to:
  - Structure the incoming request-proces
  - Prioritizing requests
  - Making focus-time for the developers
  - Aviod workoverload

SCRUM-MASTER

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- Responsible for:
  - Protecting the team
  - Clearing obstacles
  - Establishing an effective environment
  - Addressing team dynamics
  - Ensuring a good relationship
  - Facilitates meetings
- Not the leader!

INVOLVING STAKEHOLDERS

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INVOLVING STAKEHOLDERS

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- Make sure that the stakeholders:
  - Know who to contact
  - Are heard - and know they are heard
  - Have a *e.g. monthly* scheduled meeting, if needed
  - Know and understand the principles in scrum (if that is your approach)
  - And you have aligned expectations
  - Are informed, if a request is declined.

EXAMPLE - REQUESTS FROM A STAKEHOLDER

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”WE WANT TO FOLLOW THE COVID-19 SITUATION IN OUR MUNICIPALITY”

”Thank you for your request. I would like to understand the request a bit more, so I have a few questions. ”

1. **Why** do you need these numbers?
2. **What** kind of information do you want to get out of it?
3. **What** are you going to do, with the numbers provided?
4. **How** often do you need this to be updated?

EXAMPLE - REQUESTS FROM A STAKEHOLDER

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” I would love to clarify my request.

I would like to follow the developments of Covid-19 among 85+ years olds, especially in Hjørring. It means a lot to us, since we have a lot of elderly people at risk in our municipality.”

Thank you for claryfing, this helps the team to really understand the request.

As you know, we work in 2 week sprints, which means that I will discuss the request with the team next Monday when we have our next sprint planning meeting. I´ll get back to you ***if*** *and* ***when*** *it will be developed.*

CREATING A COMMON LANGUAGE

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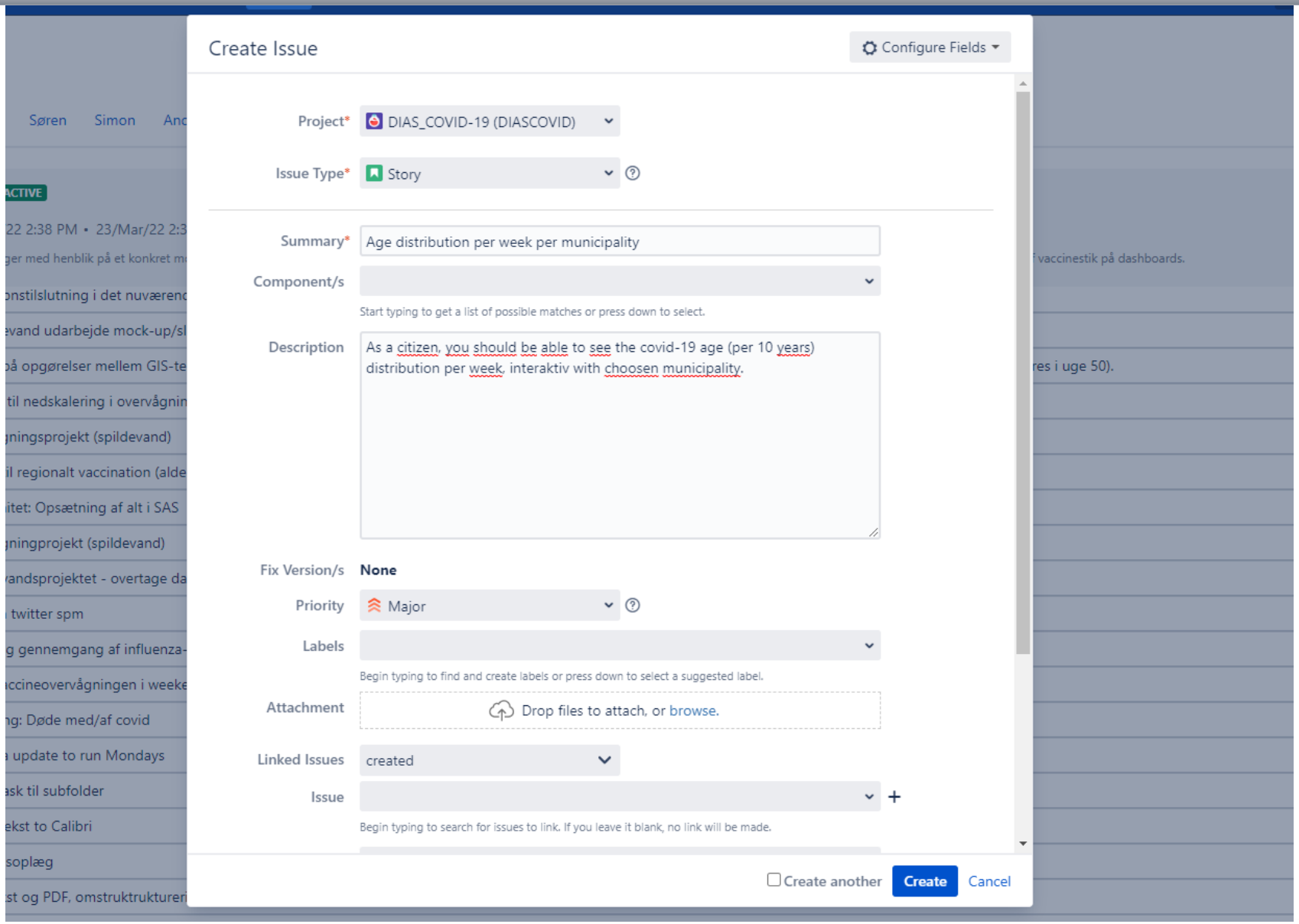

BACKLOG – ”THE REQUESTLIST”

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ArcGIS_Sprint 30_w10-12 43 issues ACTIVE

72 63 39

+2 09/Mar/22 2:38 PM • 23/Mar/22 2:38 PM

I dette sprint arbejder vi på immunitetsvisninger med henblik på et konkret mock-up, opstarte arbejdet med spildevandprojektet (datamangementdelen), indstille vaccine/gennembrudsovervågningen i weekenden, implementering af vaccinestik på dashboards.

DIASCOVID-3582 14/2-22: Opdatere den generelle vejledning med vaccinedelen jf. antal stik	Vaccination ArcGIS-...	6
DIASCOVID-3659 14/2-22: Opdatere infoteksten på vaccinedelen (efter antal stik)	Vaccination ArcGIS-...	2
DIASCOVID-3523 3/2-22: Indlæggelse: Tidsserie for nyindlæggelser med/af covid.	Covid ArcGIS Dashb...	5
DIASCOVID-3686 9/3-22: Immunitet: Stukturering i SAS	Covid ArcGIS Immun...	1
DIASCOVID-3685 9/3-22: Immunitet: task-scheduler	Covid ArcGIS Immun...	1
DIASCOVID-3555 9/2-22: Immunitet: Afklare mulige visninger	Covid ArcGIS Immun...	2
DIASCOVID-3714 15/3-22: Vaccinebegrebsændring: AGOL gennembrud		4
DIASCOVID-3617 23/2-22: Vaccinebetegnelser fra færdigvacc til 1.2.3. stik, ArcGIS online	Dashboard - ArcGIS	6
DIASCOVID-3619 23/02-22: 1.2.3. stik - ændring i readme filer (vaccine kom, reg.)	Vaccination zip - Arc...	2
DIASCOVID-3708 GennembrudDB antal figurer på mobil og desktop er forskelligt	Gennembrudsinfekti...	4
DIASCOVID-3707 GennembrudDB incidens bug.	Gennembrudsinfekti...	4
DIASCOVID-3404 23/2-22: Spildevand udarbejde mock-up/slides efter afklaring med Oliver og Johannes den 24/2-22	Dashboard - ArcGIS	4
DIASCOVID-3282 Der er forskel på opgørelser mellem GIS-team og R-teamet efter vi har ændret 7-dages opgørelsen, det skal ensrettes, ved at Finn´s afdeling håndterer det. (skal gerne prioriteres i uge 50).	Covid ArcGIS Dashb...	1
DIASCOVID-3604 21/2-22: Input til nedskalering i overvågningen	Dashboard - ArcGIS	4
DIASCOVID-3664 3/3-22: SSI bygningsprojekt (spildevand)	COVID i spildevand -...	4
DIASCOVID-3472 Tilføje figurer til regionalt vaccination (alderstidsserier)	Vaccination ArcGIS-...	8
DIASCOVID-3557 9/2-22: Immunitet: Opsætning af alt i SAS	Covid ArcGIS Immun...	16
DIASCOVID-3663 3/3-22: SSI bygningprojekt (spildevand)	COVID i spildevand -...	4
DIASCOVID-3690 9/3-22: Spildevandsprojektet - overtage datamangement	Spildevands DB	4
DIASCOVID-3694 9/3-22: svar på twitter spm		1
~~DIASCOVID-3104~~ Overlevering og gennemgang af influenza-dashboardet behinde the scenes, så hele teamet kan navigere rundt.	Influenza A og B Das...	5
~~DIASCOVID-3693~~ 9/3-22: stop vaccineovervågningen i weekenden uge 10	Vaccination ArcGIS-...	2
DIASCOVID-3688 9/3-22: Afklaring: Døde med/af covid	Covid ArcGIS Dashb...	3
DIASCOVID-3713 Testcenter data update to run Mondays	Covid ArcGIS Dashb...	
DIASCOVID-3716 influenza sas task til subfolder	Covid ArcGIS Dashb...	
DIASCOVID-3717 Influenza Infotekst to Calibri	Covid ArcGIS Dashb...	
DIASCOVID-3691 9/3-22: Fredagsoplæg		3
DIASCOVID-3530 4/2-22: Infotekst og PDF, omstruktrukturering på DB	Dashboard - ArcGIS	4
DIASCOVID-3715 15/3-22: Vaccinebegrebsændring: AGOL		

SCRUM EVENTS

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Sprint: 2 weeks

Mandag	Tirsdag	Onsdag	Torsdag	Fredag	Mandag	Tirsdag	Onsdag	Torsdag	Fredag
	Daily standup	Daily standup	Daily standup	Daily standup	Daily standup	Daily standup	Daily standup	Daily standup	
Sprint planning									Sprint review

Sprint planning

1. Scrum master facilitates the sprint planning. Product owner might participate to answer questions.
   The team-members participate.
2. Scrum master presents the backlog for the team.
3. The team help break-down big tasks to smaller tasks
4. The team members divide the task among them.

Daily stand-up

1. Scrum master facilitates the daily stand-up meeting.
2. Scrum master asks:
   - What was worked on yesterday?
   - What are you going work on today?
   - Is there any obstacles

3. Going through minutes from relevant meetings yesterday and planning todays meetings

Sprint review

1. Scrum master facilitates sprint review. Team-members (and product owner, if possible) participates.

2. The team presents the "done" results during the sprint.

3. The team evaluate the proces for the finished sprint, to gain learnings.

SPRINT (2 WEEKS)

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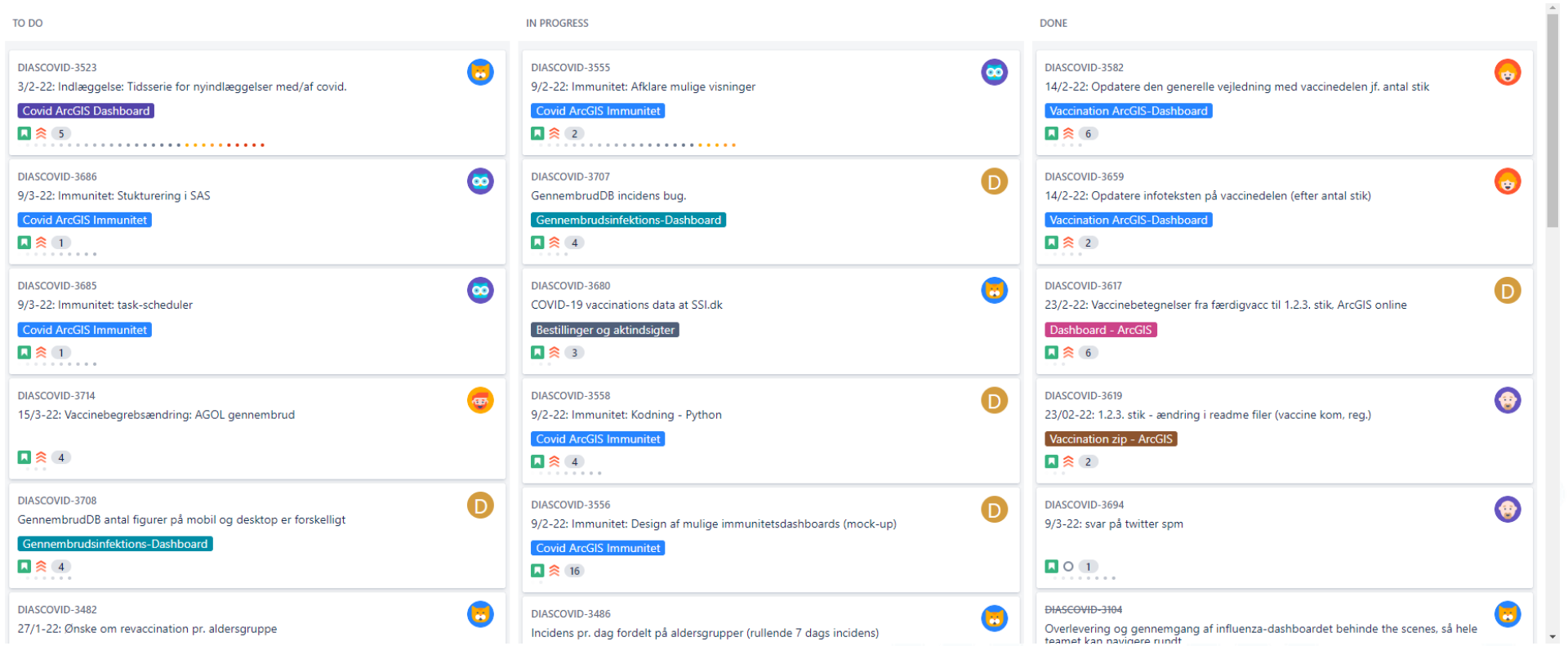

COVID-19 DASHBOARD

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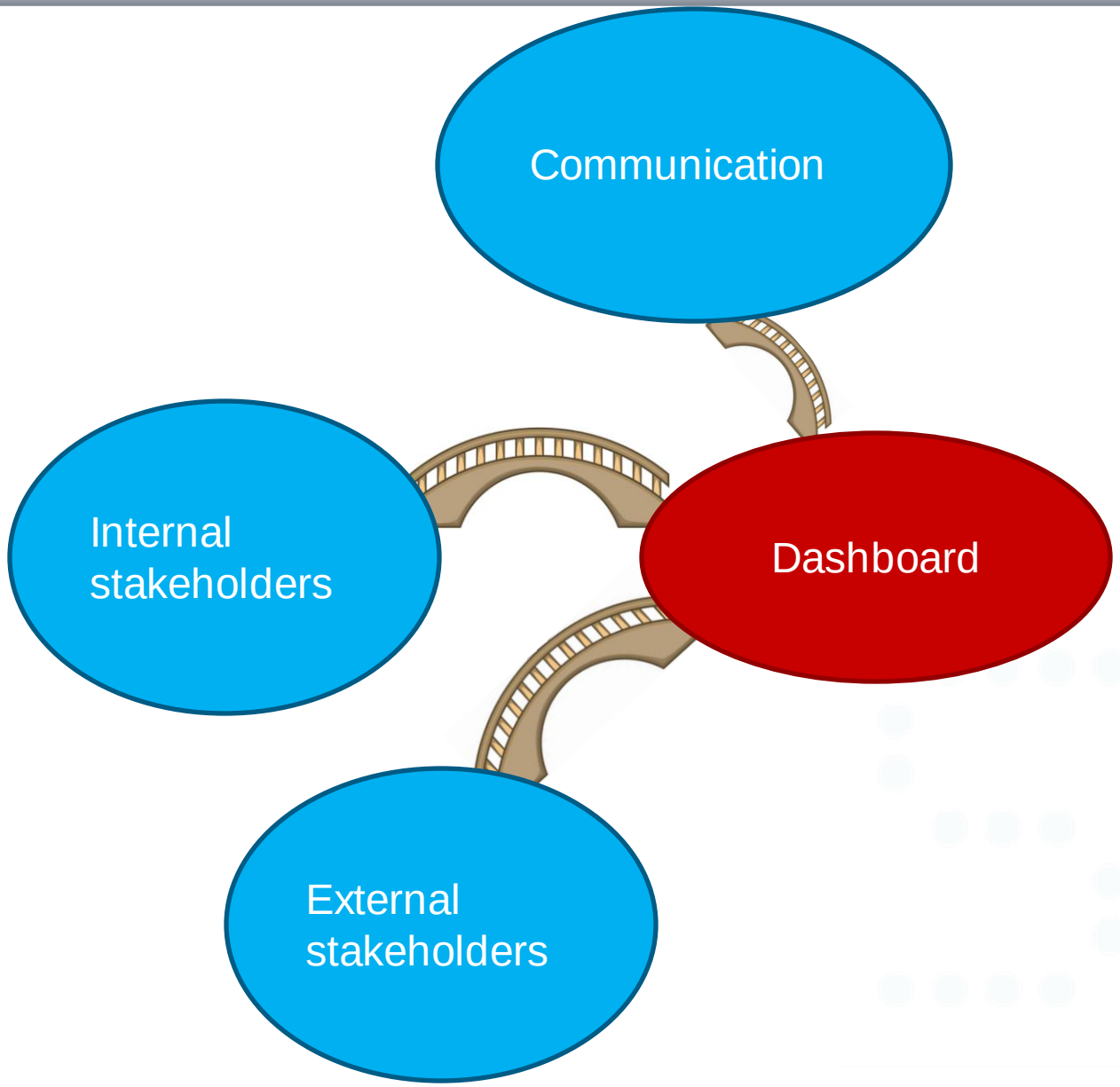

COMMUNICATION

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- Internal:
  - E-mail vs teams-chat
  - Online meetings vs physical meetings
  - Planned ”how are you?” chats
- External:
  - Coordinate with other teams
  - Communication with the media and citizens
  - Use a proffesional communication-team for the vizualization.

COVID-19 DASHBOARD

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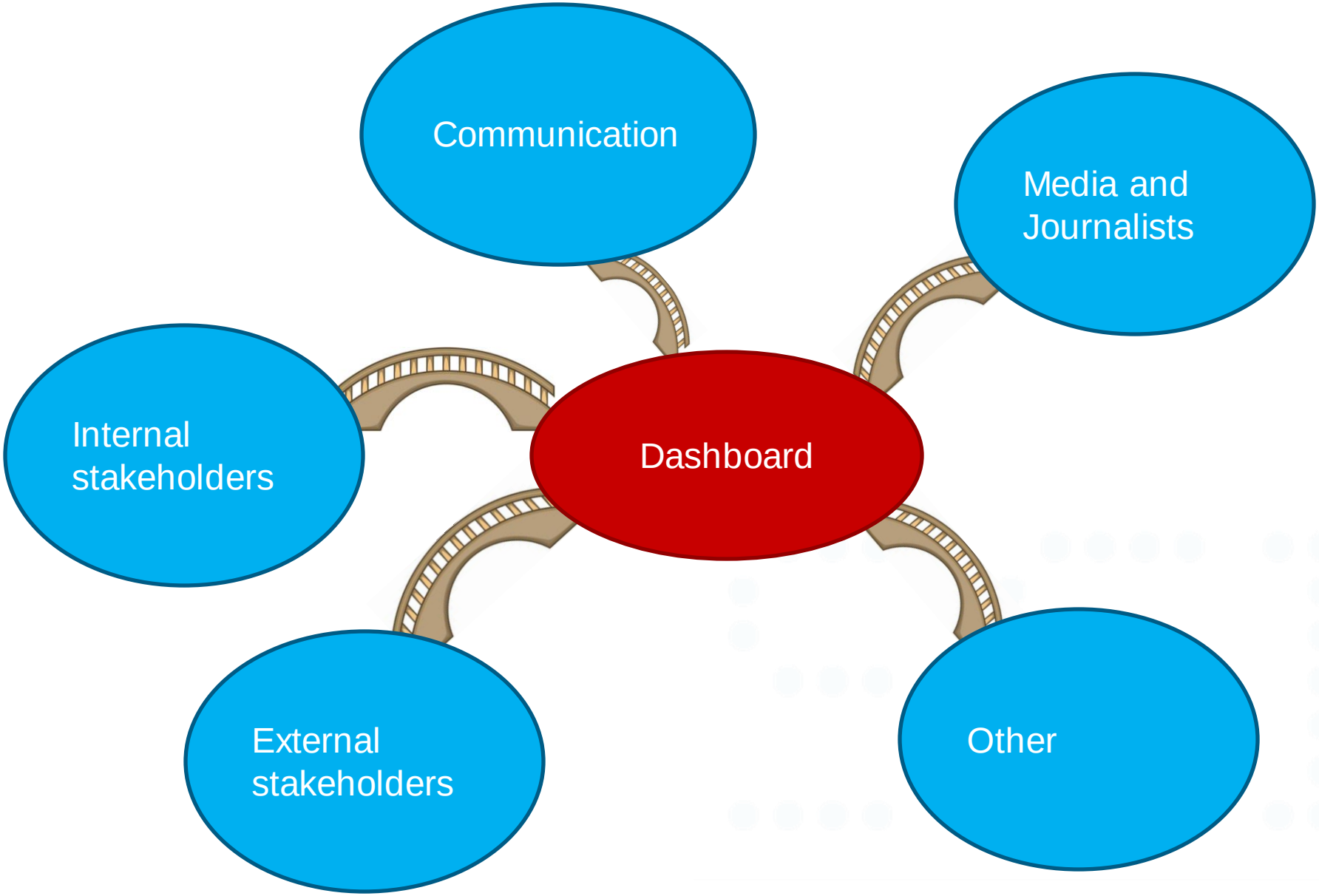

BRIDGES…

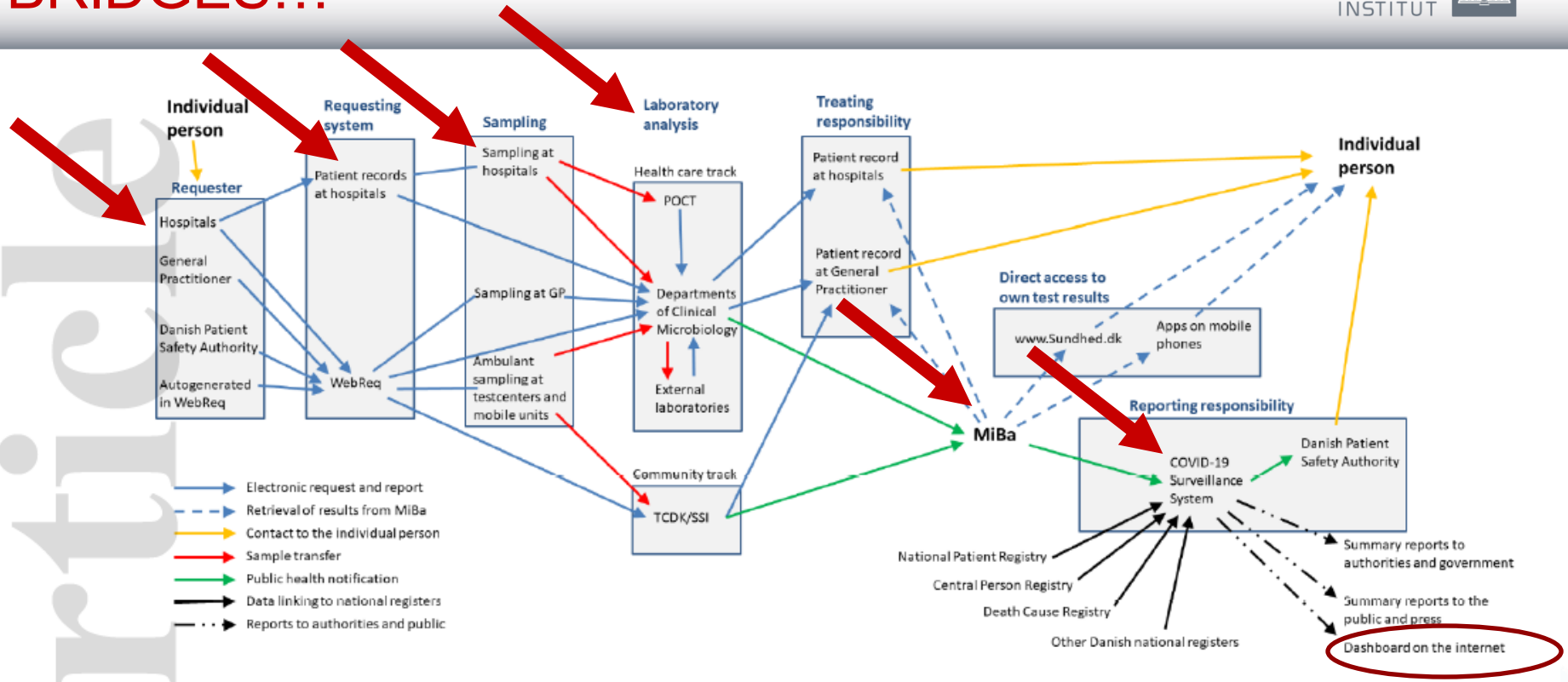

Figure 1. Dataflow from test request to reporting of the final result to the requesting doctor, to the tested person and to MiBa for the national surveillance and display of statistics as well as for reporting of positive cases to the Danish Patient Safety Authority. Abbreviations: POCT: Point Of Care Testing, SSI: Statens Serum Institut, TCDK: Test Center Denmark, WebReq:Web-based electronic request system[20] Up load mechanisms for private vendors and school screening is not included in this outline of the system, for clarity reasons.

See article here: [Electronic reporting of diagnostic laboratory test results from all healthcare sectors is a cornerstone of national preparedness and control of COVID-19 in Denmark - PubMed (nih.gov)]

LESSONS LEARNED

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- Choose an approach, that works for your team
- Make sure to have one person that is responsible for the communication to and from stakeholders.
- Be structured – or hire someone that is.

COVID-19 DASHBOARDS AT SSI

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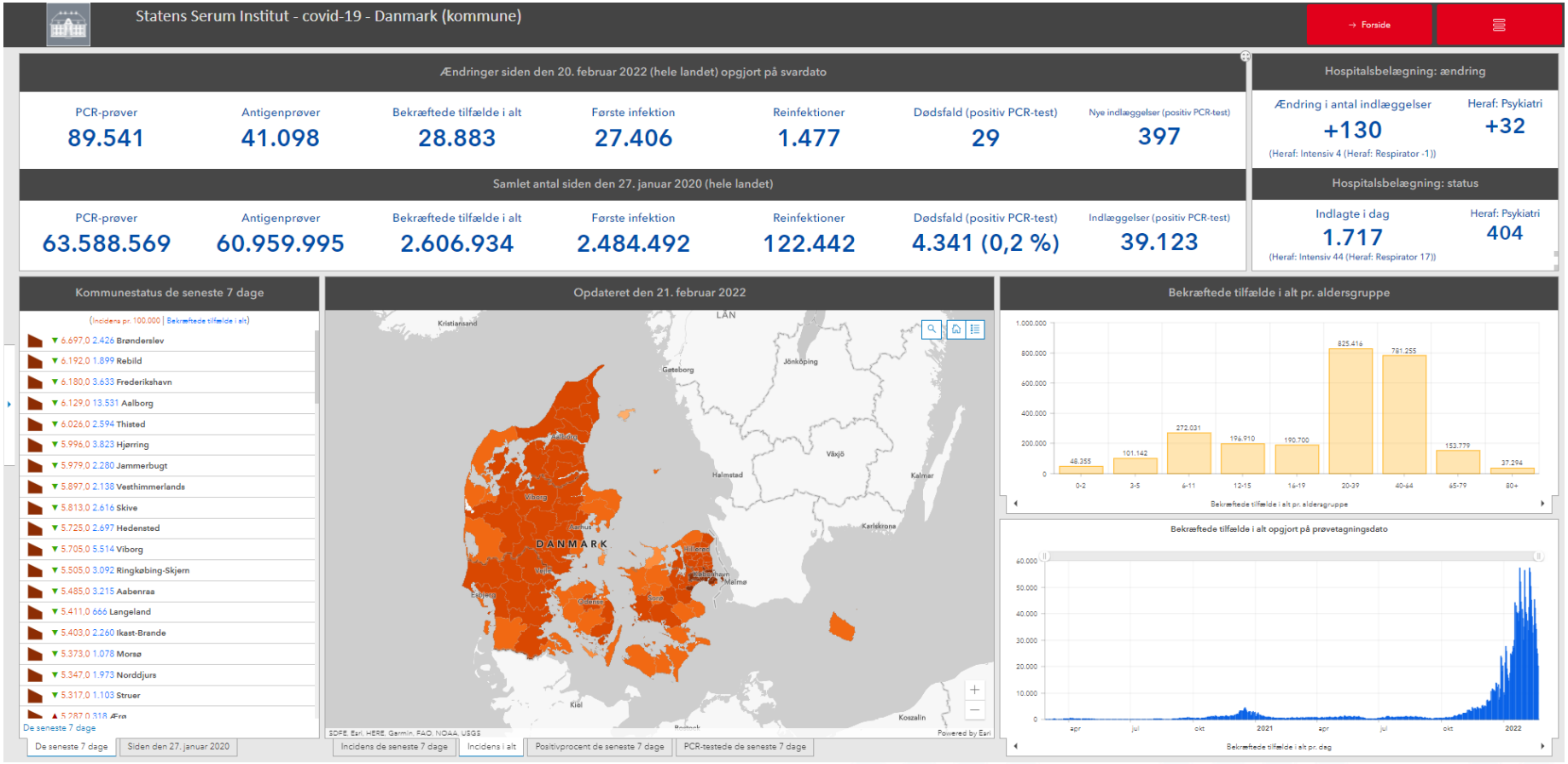
- https://experience.arcgis.com/experience/242ec2acc014456295189631586f1d26



Thank you for your time!

Any Questions?