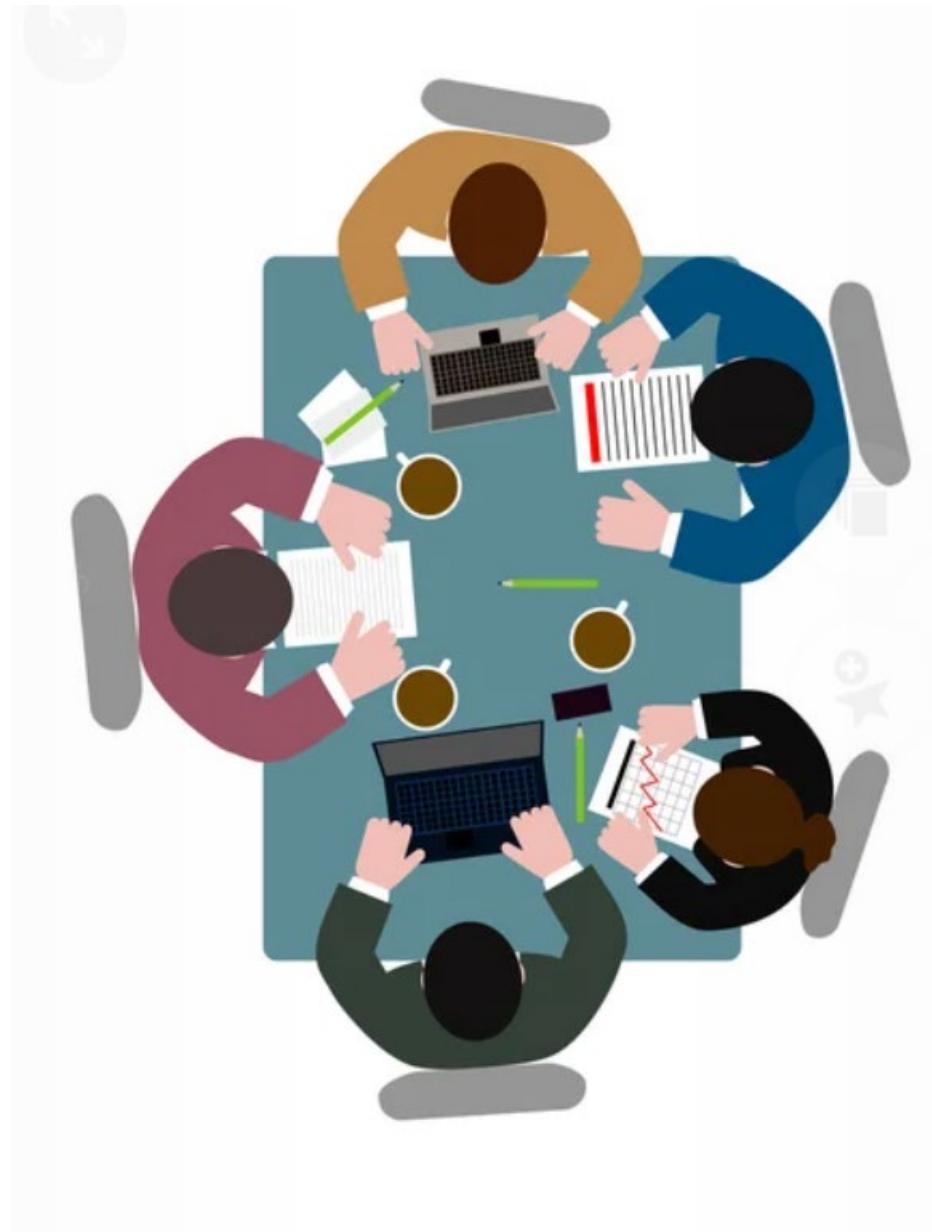


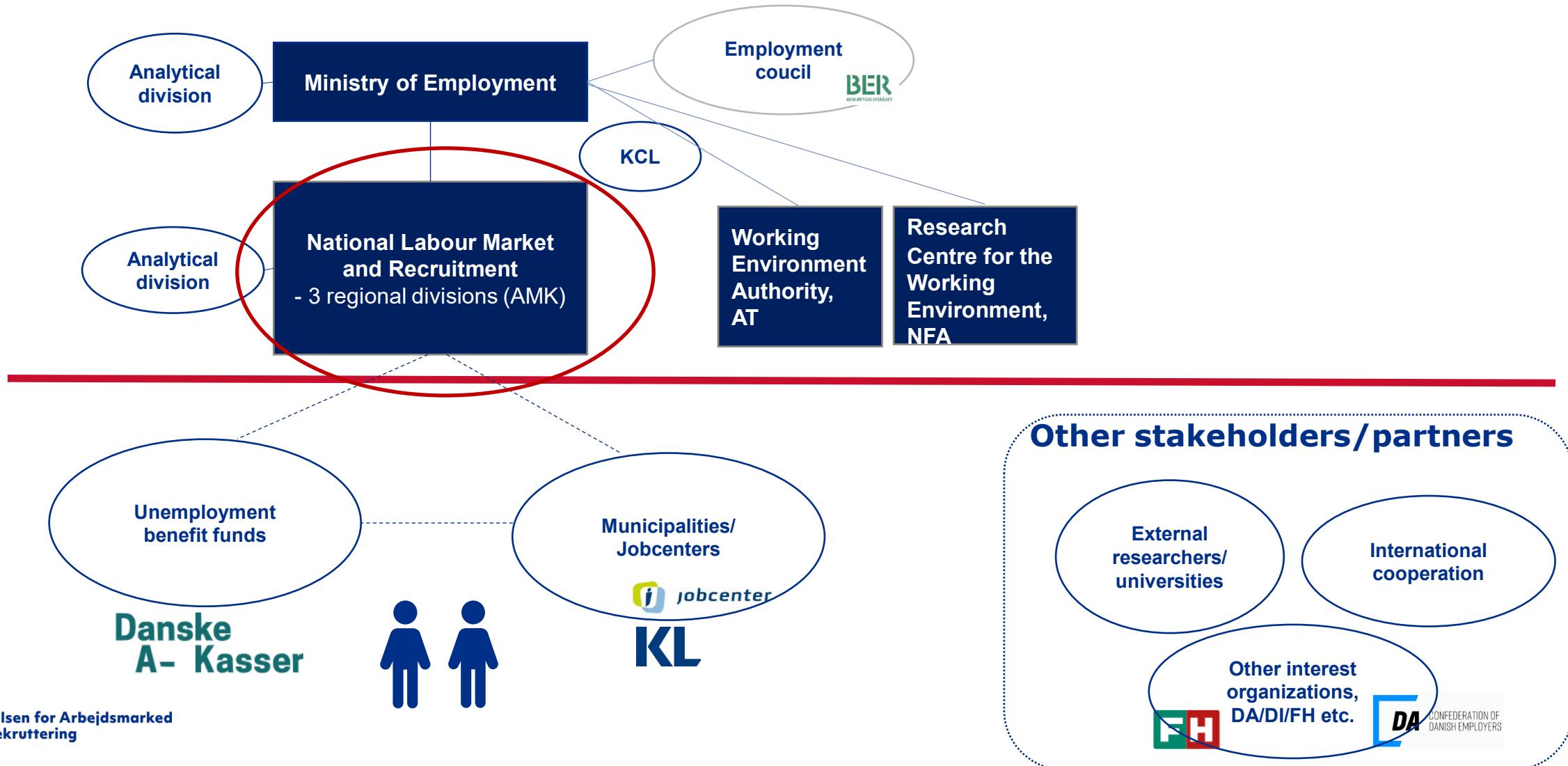
# Data and analysis in Denmark

# Agenda

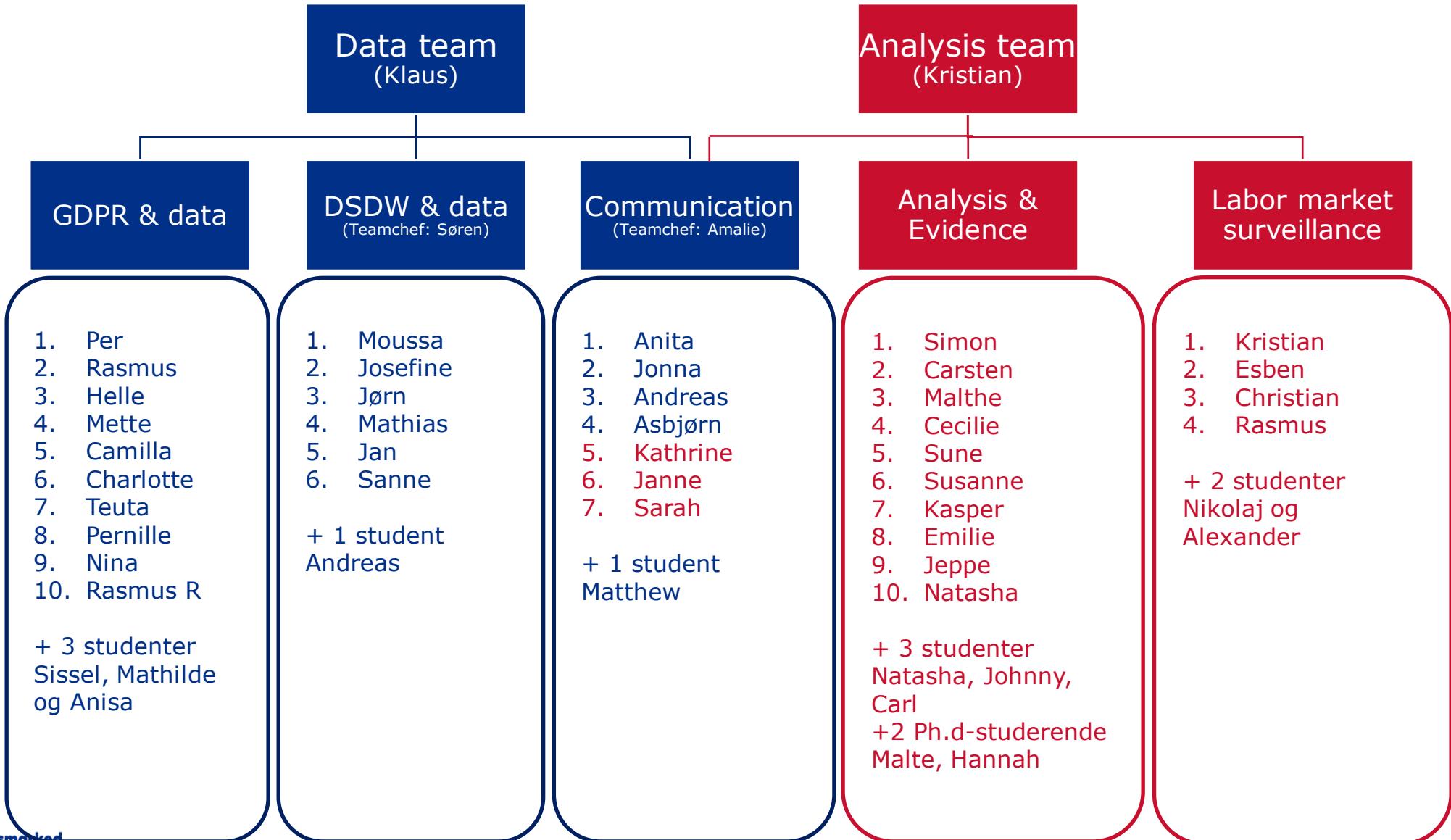
1. Introduction
2. Data
3. The Danish Evidence Strategy
4. Discussions



# The Danish Employment System



# Analytical division in National Labour Market and Recruitment



# 1. Data

# Great data is essential for good statistics and evaluations

In Denmark every person has an unique identifier. These identifiers can be used to combine elaborate data sets for statistical/research purposes.

## Administrative data are collected:

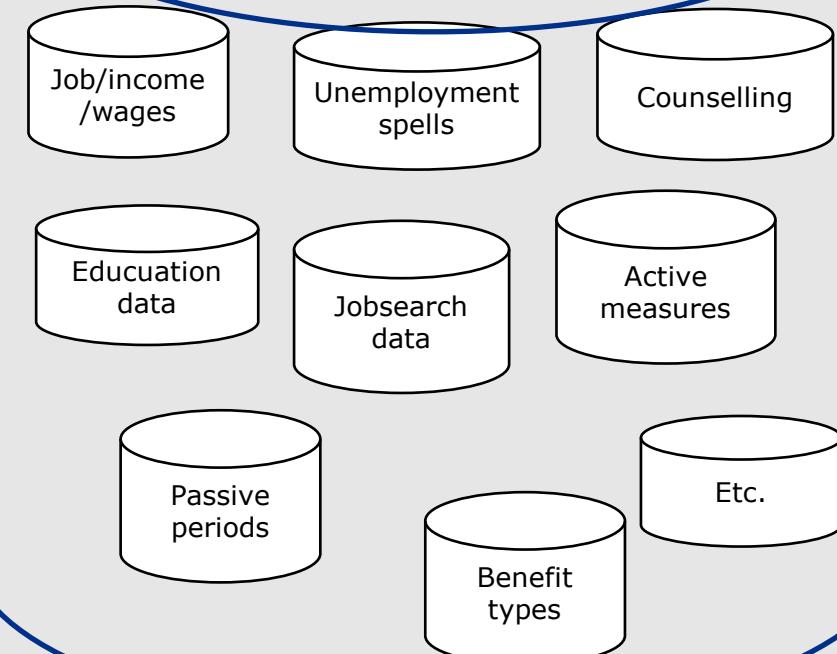
Dates of start/end for example:

- Benefit types: Types and periods of receiving public benefits
- Treatments: Periods and types of participation in active measures, counselling sessions etc.
- Outcomes: Periods and types of jobs (wages in E-income-register, sectors etc) and education (SU-income) etc.

## Survey data and interview data collected in evaluations:

- Experiences and opinions of unemployed, caseworkers, managers etc. are collected as part of the evaluation.

## Administrative data – STAR's statistical data warehouse

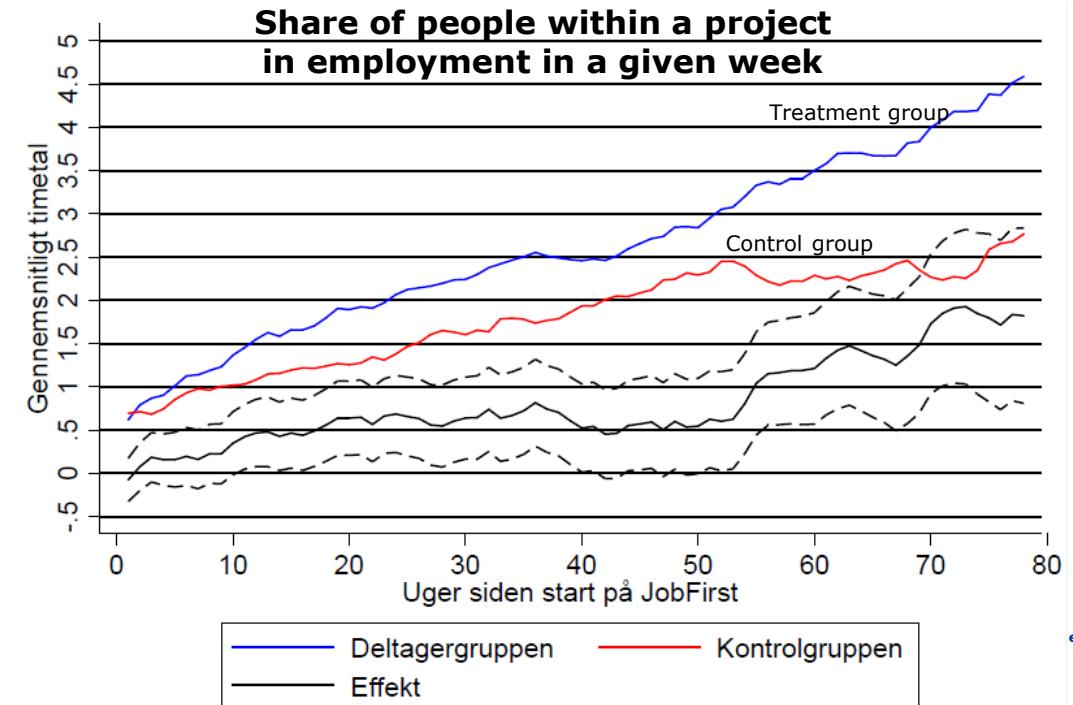


# An example: DREAM register used for evaluations

Every person has its own "row". Every treatment has its own number."

<b>Id</b>	<b>week_1_1993</b>	<b>week_2_1993</b>	<b>...</b>	<b>week_19_2023</b>	<b>week_20_2023</b>	<b>week_21_2023</b>
xxx	...	...			111	111
yyy	..	...		111	111	100
zzz	...	...		111	215	100

111 = Unemployed, Passive unemployment  
213 = Unemployed, Activation Class room training  
214 = Unemployed, Activation Ordinary education  
215 = Unemployed, Activation Wage subsidy, Private  
216 = Unemployed, Activation Wage subsidy, Public  
217 = Unemployed, Activation Company based training, Private  
218 = Unemployed, Activation Company based training, Public  
100 = Employment  
...  
...



**Databank publicly available on labor market statistics**  
**- Used for example by municipalities to compare them  
selves with each other**

Go online: [www.Jobindsats.dk](http://www.Jobindsats.dk)

## 2. Accumulating evidence

# What works based on counterfactual analysis – some examples

## Unemployed

- + Counselling
- + Private wage subsidy jobs and company based training
- + Economic incentives and sanctions

## Vulnerable groups

- + Personal jobcoach
- + Caseworker "beliefs on citizens"
- ÷ Caseworkers shifts

## Young people

- + Young people without problems "turn around in door"
- + Vulnerable young: "Brobygningsforløb"

## Sickness benefit recipients

- + Early contact to workplace and more.



# Building the Danish Knowledge Base

*A continuous accumulation of knowledge as part of the policy cycle.*

The Danish knowledge-base plays an important role in evidence based policy making and implementation process:

1. Firstly policy proposals, which have been negotiated by political parties are articulated.
2. Secondly the political parties agree on new policy initiatives/legislations.
3. Then, initiatives/legislations are implemented.
4. Finally, the effects of new initiatives/legislations are evaluated.
  - ❖ In almost every political agreement an evaluation of the initiative/reform is part of the agreement



# Governance model for the work on evaluations within National Labour Market and Recruitment

Governancemodel for evaluations i STAR



Evaluations are increasingly conducted within STAR.

- 1. Policy making processes.** Decisions on evaluations are considered within the policy making process
- 2. Political agreements.** Responsibility and organisation of evaluations are decided.
- 3. Progress.** Twice a year status within STAR on the work of progress

# The Danish Evidence Strategy

The framework for STARS work on evidence is formally described in the evidence strategy of the Ministry of Employment.

Jobcenters/social unemployment funds play an important role: They give input to determine where knowledge lacks, participate in projects, engage in networks etc.

- **Track 1: Accumulate knowledge about what works**
  - ❖ Literature reviews
- **Track 2: Innovate / create new insights**
  - ❖ RCT's and econometrics/mathematical control groups
- **Track 3: Disseminate to politicians and practitioners**
  - ❖ Jobeffekter.dk and STAR.dk



**Read more:** <https://www.star.dk/en/evidence-based-policy-making/stars-evidence-strategy/>



- A. Literature reviews**
- B. RCTs and effect evaluations based on econometrics**
- C. Other studies**

**Read more:**

<https://www.star.dk/viden-og-tal/hvad-virker-i-beskaeftigelsesindsatsen/reviews/>

<https://www.star.dk/viden-og-tal/hvad-virker-i-beskaeftigelsesindsatsen/randomiserede-kontrollerede-forsoeg-rct/>

<https://www.star.dk/viden-og-tal/analyser/>

# A. Literature reviews

- **A systematic collection of effect studies from research data bases.**
  - Conducted by external researchers
  - Define target groups, treatments or other dimensions subject to investigation
  - Define search words and search data bases
  - Search the litterature by title and abstract
  - Do a first screening to narrow down number of studies
  - Full text reading to find the final number of studies

Method: PICOS (Population, Intervention, Comparison, Outcomes, Study design)	"Distance meetings" - Search words
<b>Population</b>	employment; unemployed; displaced; job-seekers; job-search
<b>Intervention, outcome, comparison</b>	video, virtual, telephone, skype, online, web-based, distance meetings
<b>Study design</b>	RCT; randomized/randomised controlled trial; experiment; case-control; review; meta-analysis; causal effect; impact; evaluation; natural experiment; quasi-experiment; instrumental variable; IV; exclusion restriction; regression discontinuity; propensity score matching; difference-in-difference; regression
<b>Search databases - online-database</b>	Academic Search, EconLit, PsycInfo, Sociological Abstracts/Social Services Abstracts (samsøgt), Social Sciences Citation Index (Web of Science), Soc.Index Campbell, Proquest Dissertations & Theses, IDEAS/RePEc. and others

## Already conducted literature reviews:

### Target groups:

- Unemployed seniors
- Young people
- Non-western immigrants
- Former criminals
- People on sickness benefit
- People with affective illness and anxiety



### Treatments:

- Training courses for young people
- Ordinary education within the employment system
- Company based training
- Counselling sessions

### Other:

- Economic incentives
- Behavioral insights and nudging
- Progression indicators
- Caseworker issues and distance meetings

# B. RCTs and other counterfactual effect evaluations based on econometrics

## RCTs: 2005-2022:

- Hurtigt i gang 1, 2005-2006 (Focus on early and intensive intervention, caseworker interviews and early activation, new UIB)
- Hurtigt i gang 2, 2008-2009 (Focus on early and intensive intervention, caseworker interviews and early activation. Different design from Hurtigt i gang 1)
- Alle i gang, 2008 (Focus on caseworker interviews, long-term recipients of social benefits)
- Aktive Hurtigere tilbage, 2009 (Focus on caseworker interviews, activation of recipients of sickness benefits)
- Unge-Godt i gang, 2009-2010 (Focus on caseworker interviews, early activations, mentors – young people under the age of 30 with and without education)
- På rette vej i job, 2010-2012 (Focus on caseworker interviews, company-based training, company based mentoring – recipients of social benefits)
- LVU-forsøget, 2011-2012 (Focus on job centre intervention versus intervention by private agencies – unemployed persons in long-term education/academics)
- Mentorforsøget, 2012-2013 (Focus on social mentors – young persons under the age of 30 who are recipients of social benefits)
- IPS 2012-2017: A systematic treatment for recipients with mental health problems
- Jobfirst 2016-2017. A systematic company-based intervention for vulnerable recipients of benefits.
- Jobbro til uddannelse, 2018-2020: Focus on vulnerable young people into education
- IBBISI+II, 2016-2018 og 2019-2022: Focus on health treatment combined with employment treatment
- + several RCT's in the field of nudging /behavioral economics.

## Econometric studies 2018-2021:

- Evaluering af Lær at tackle kurser: <https://star.dk/media/9992/evaluering-af-laer-at-tackle-job-og-sygdom.pdf>
- Evaluering af projekt Sammen om Fastholdelse: <https://star.dk/media/13207/sof-hovedrapport-november-2019.pdf>
- Evaluering af projekt IPS: <https://star.dk/media/9153/ips-rapport.pdf>
- Evaluering af unge med handicap: <https://star.dk/media/18115/n-slutevaluering-arbejdsmarkedsinklusion-af-unge-med-handicap-en-skalerbar-model.pdf>
- Evaluering af progression i Kbh kommune: <https://star.dk/media/10735/beskrivelse-af-progression-for-ledige-og-sygemeldte-i-kobenhavns-kommune.pdf>
- Evaluering af Jobfirst: <https://star.dk/om-styrelsen/publikationer/2018/5/evaluering-af-jobfirst/>
- Evaluering af udvikling i Fleksjob: <https://star.dk/media/8743/evaluering-uvikling-i-fleksjob.pdf>
- Evaluering af Brobygning til uddannelse: <https://star.dk/media/14704/opdateret-effektevaluering-af-brobygning-til-uddannelse.pdf>
- Evaluering af Jobbro til uddannelse: <https://star.dk/media/17943/evalueringssrapport-jobbro-til-uddannelse-afrapportering.pdf>
- Kvantitativ registerbaseret slutevaluering af STV: <https://star.dk/media/13578/delnotat-1-kvantitativ-analyse-stv.pdf>
- Kvantitativ slutevaluering af Håndholdt indsats i Ressourceforløb: [https://star.dk/media/13582/hir-kvantitativ-slutevaluering-2710582\\_1\\_1.pdf](https://star.dk/media/13582/hir-kvantitativ-slutevaluering-2710582_1_1.pdf)
- Evaluering af projekt Bedre Ressourceforløb: <https://star.dk/media/13577/brf-sammenfatning.pdf>
- Evaluering af 6UJU: <https://star.dk/media/18161/effektanalyse-af-seksugers-jobrettet-uddannelse.pdf>
- Evaluering af den regionale uddannelsespulje: <https://star.dk/media/10899/den-regionale-uddannelsespulje-udbredelse-udvikling-og-efekter-vive-2018.pdf>
- Evaluering af Jobrotation: <https://star.dk/media/18162/effektanalyse-af-jobrotationsordningen.pdf>
- Evaluering af VEU: <https://star.dk/media/18163/effektanalyse-af-veukurser.pdf>
- Evaluering af Jobpræmie: <https://star.dk/media/17692/evaluering-af-jobpræmieordningerne-for-langtidsledigge-2017-2019.pdf>
- Evaluering af projekt seniorvikar: <https://star.dk/media/17340/bilag2-evaluering-af-projekt-seniorvikar.pdf>
- Evaluering af trainee-indsatsen: <https://star.dk/media/11778/evaluering-af-trainee-indsatsen.pdf>

## RCT - a systematic approach to gain new knowledge about effects

- Describe:
  - Target groups
  - Treatments
  - Outcome measures
  - Data
- Also describe:
  - Randomization procedure
  - Fidelity measures
  - Power calculations
  - GDPR
- Select municipalities
- Do a pilot
- And more...

## Close cooperation with researchers and partners at the local level

- Dialogue before/during and after RCT with municipalities/jobcenters and unemployment benefit funds
  - Define programs
  - Technical issues: Collection of data, randomization procedures, fidelity measures, monitoring reports etc.
- The need for support of local level during projects like engaging in workshops, protocols, monitoring reports etc.

# C. Many other analysis (50+ since 2018)

## Unemployed close to the labor market

- Evaluering af pulje til nedbringelse af sygefravær (2023) [Evaluering af puljen til nedbringelse af sygefravær i ældreplejen \(star.dk\)](#)
- Evaluering af aftale om tryggere dagpengesystem (2022) [Evaluering af dagpengereformen – Et tryggere dagpengesystem \(star.dk\)](#)
- Evaluering af senior erhvervs Danmark (2021) [Evaluering af Senior Erhverv Danmark 2018-2020 - VIVE](#)
- Evaluering af projekt med uddannelsesambassadører (2021) [Ny evaluering af Projekt Uddannelsesambassadør II \(star.dk\)](#)
- Analyse af voksenlærlingeordningen (2021) <https://star.dk/media/18149/deskriptiv-analyse-af-voksenlaerlingeordningen.pdf>
- I hvilket omfang fører virksomhedsrettet indsats til beskæftigelse (2020) [Analyse af virksomhedsrettede forløb \(star.dk\)](#)

## More vulnerable groups

- Afdækning af langvarig kontanthjælpsmodtagere (2022) [Afdækning af langvarige kontanthjælpsforløb \(star.dk\)](#)
- Udvikling i fleksjob II (2021) [Kvalitativ erfaringsopsamling af Udvikling i fleksjob II \(star.dk\)](#)
- Evaluering af projekt Flere skal med 1 (2020) [FLERE SKAL MED SLUTEVALUERING \(star.dk\)](#)
- Evaluering af personlig assistance (2019) [Rapport om evaluering af ordningen med personlig assistance \(star.dk\)](#)
- Uddannelsesmodtageres veje i og uden for ydelsessystemet (2019) [Uddannelseshjælpsmodtageres veje i og uden for ydelsessystemet \(star.dk\)](#)
- Uddannelseshjælpsmodtageres overgang til uddannelse og beskæftigelse (2018) [Unges vej fra uddannelseshjælp til uddannelse og beskæftigelse \(star.dk\)](#)

### **3. Communication channels**

# Jobeffekter.dk go online: [www.jobeffekter.dk](http://www.jobeffekter.dk)



## Search for a job effect

The search feature allows the user to search for the effect of an intervention on a given target group.

