



# **Skills OVATE:**Cedefop tool for analysing online job advertisements

Jiri Branka



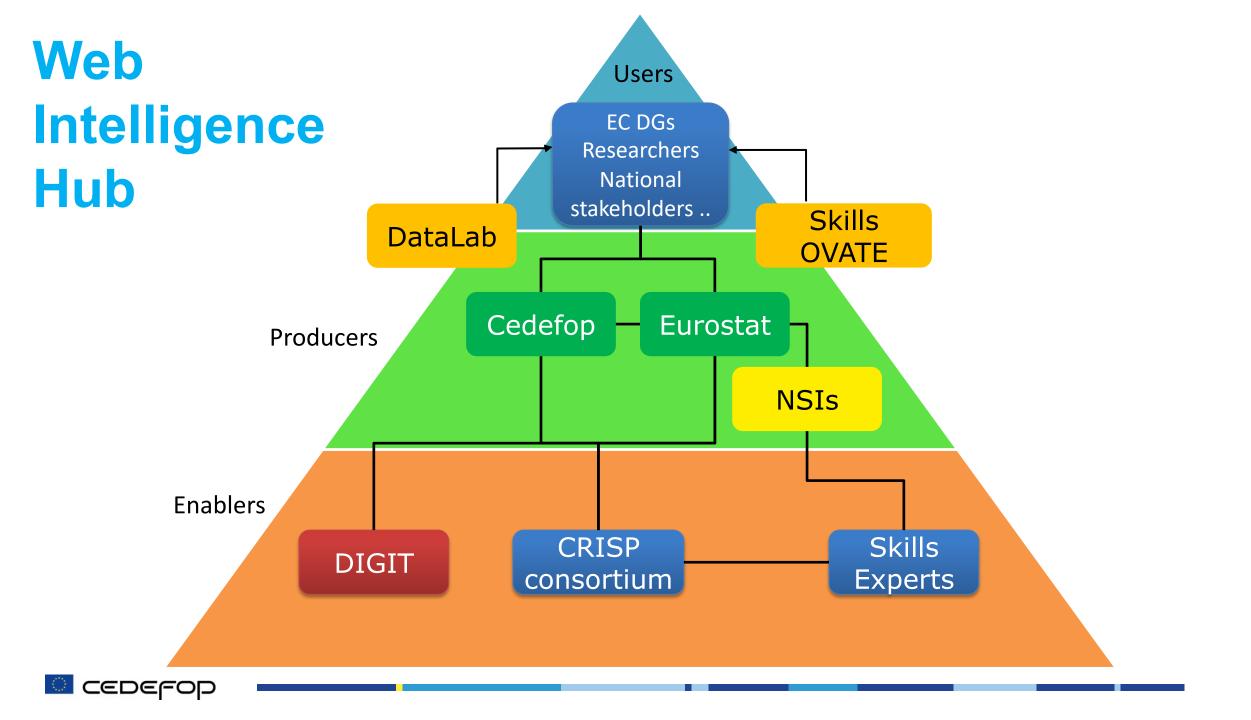
European Centre for the Development of Vocational Training

# A quick warm-up:

## You and Skills OVATE (poll 1):

- 1. I never heard of it.
- 2. I've heard, never visited.
- 3. I visited once or few times
- 4. I visit and use regularly.

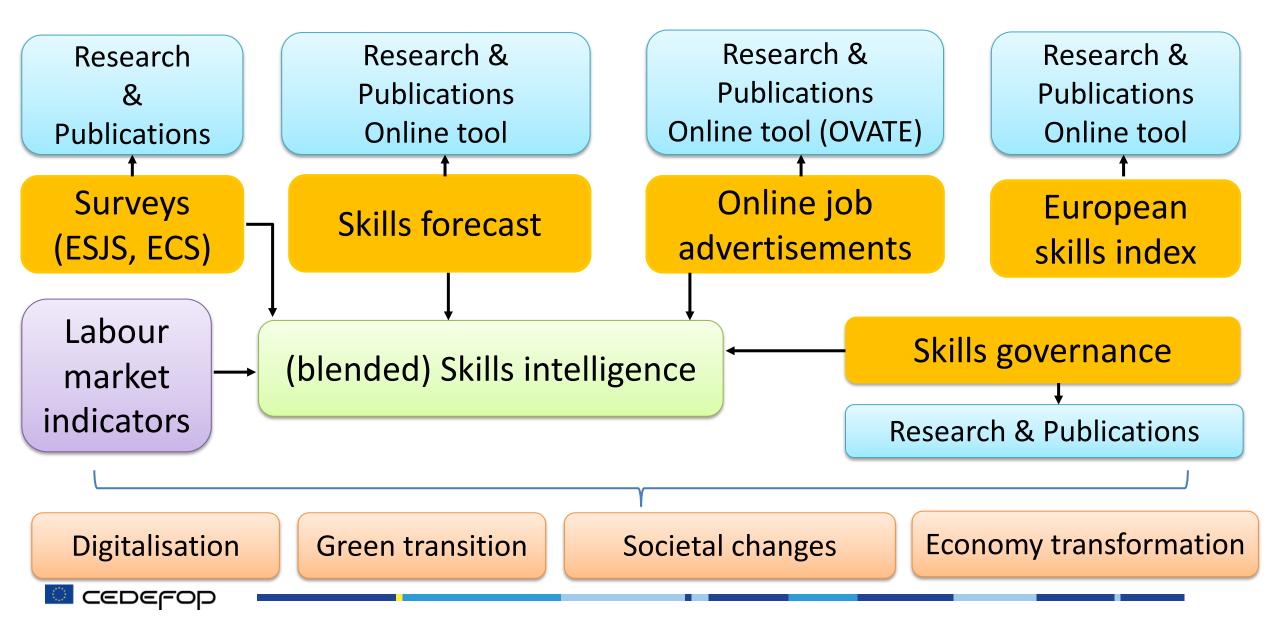








## Cedefop's Skills intelligence



## Skills OVATE expanded

- 28 countries
- ISCO 3-digit (100+ occupations)
- NUTS 2-digit (281 regions)
- ESCO and ONET skill hierarchy (around 300 skills)
- NACE 1-2 digit (22 sectors)

Last 4 quarters of OJA data
Updated 4 times a year

produced i cirrics a year

Delay: 6-8 weeks

Online job markets	Skill insights	Occupation insights	Sector insights	Region insights
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- Research work:
  - Landscaping activity providing country level context for OJA analysis
  - Representativeness of OJAs: Use of OJA in official statistics
  - OJAs and task demand on crowdwork portals
- Gradual expansion of the system (Norway, Switzerland, Iceland, Liechtenstein)



## Challenges of OJA analysis

- Online job advertisement ≠ job vacancy
   (Ghost vacancies? Relation to actual hirings? Offline postings? 1:N?)
- Purpose of a job advertisement is not to report on skill profiles of jobs

(Completeness? Objectiveness? Format? Structure? Implicit skills?)

- Quality of underlying ontologies
   (Emerging skills and jobs? Language challenges?
   Synonyms and alternate labels?)
- Should not be a standalone source of skills and labour market analysis

If you can figure this out, you may have a future with Google.

```
8 M L D Q 6 T U I
6 T F M L R H A A
N R A 6 Q 8 E F L
D M Q 8 6 I I 2 0 3
2 S 5 J 1 3 J X O J
```





# An opinion poll:

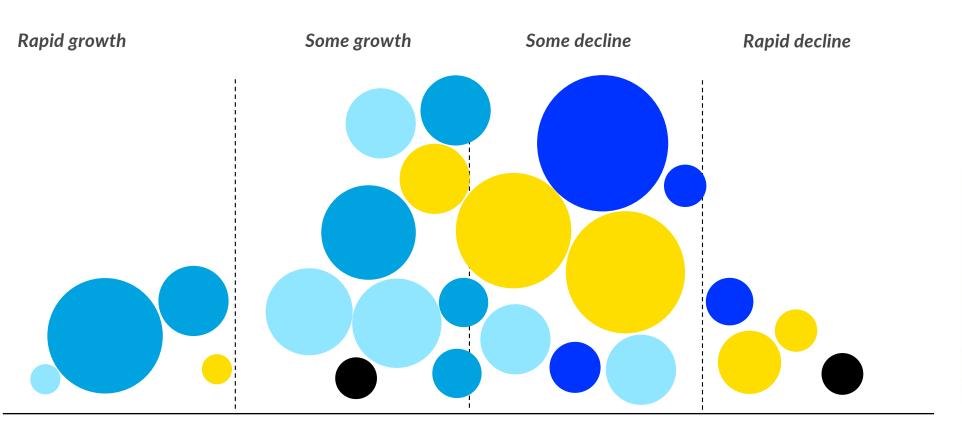
Which skills you expect to be rising in demand most during pandemic (poll 2)?

- 1. Teamwork
- 2. Adaptability
- 3. Digital skills
- 4. Communication skills
- 5. Business and administration skills
- 6. Any other? Use comments!



## 2020 in skills: Digital on the rise

Skill demand in online job ads: 2020 vs. 2019





CEDEFOD

**BRIEFING NOTE** 

#### TRENDS, TRANSITIONS AND **TRANSFORMATION**

NEVER WASTE A GOOD CRISIS This time, many decision-makers have remai confident in the economic fundamentals, view

The Covid-19 pandemic is changing skill needs

regenerate induced social distancing measures and rege-scale lockdowns have caused an economic downturn that is more severe than the recession slowing the 2008 global financial crisis (i). In a lit-e more than a year, the ubliquitous health threat has neetted almost all areas of society and economy,

In the previous crisis, many governments reacted imposing severe austerity measures; policy renses to the current health crisis have been more

TABLE 1. WHAT IS SKILLS INTELLIGENCE?				
Skills intelligence	Outcome of a knowledge-d process of collecting, select ing, combining and present evidence to map and anticip labour market and skills tree			











Mechanical / electrical trades



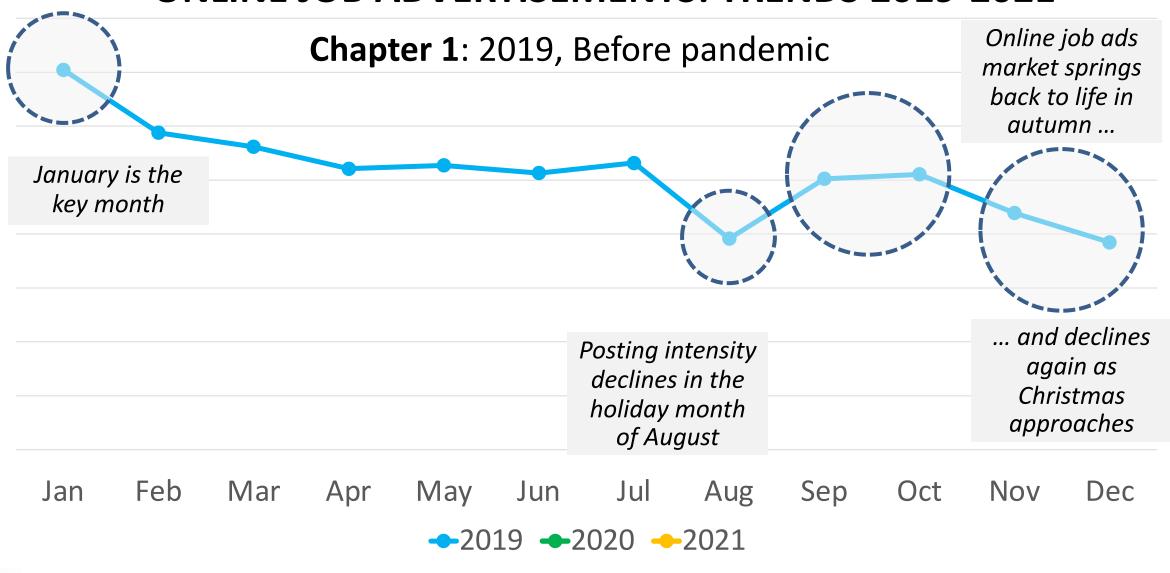
# Online job advertisements and the pandemic (Jan 2020 to Jun 2021):

(Poll 3) Do you expect the online job ads market to:

- 1. Fall sharply and stay depressed?
- 2. Fall sharply and partly recover?
- 3. Fall sharply and fully recover?
- 4. Only fall slightly and recover?
- 5. Falls gradually during pandemic?

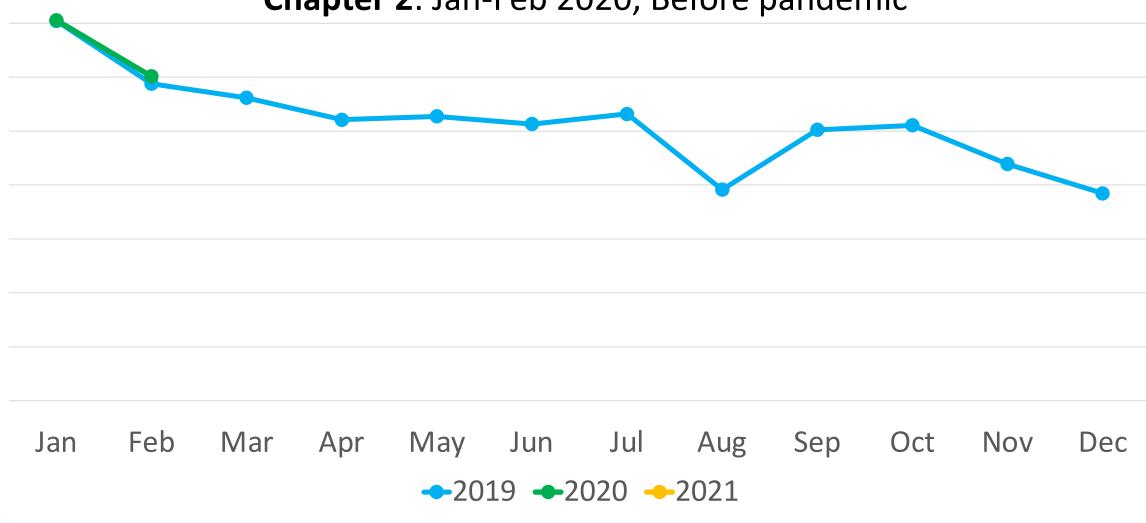
**Share your opinions in comments!** 



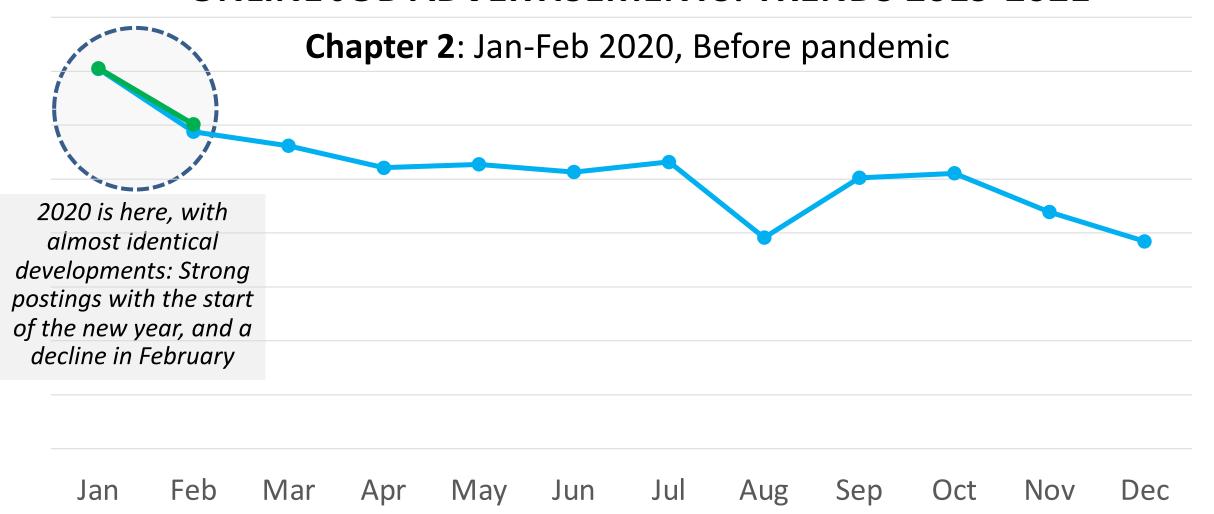












**→**2019 **→**2020 **→**2021





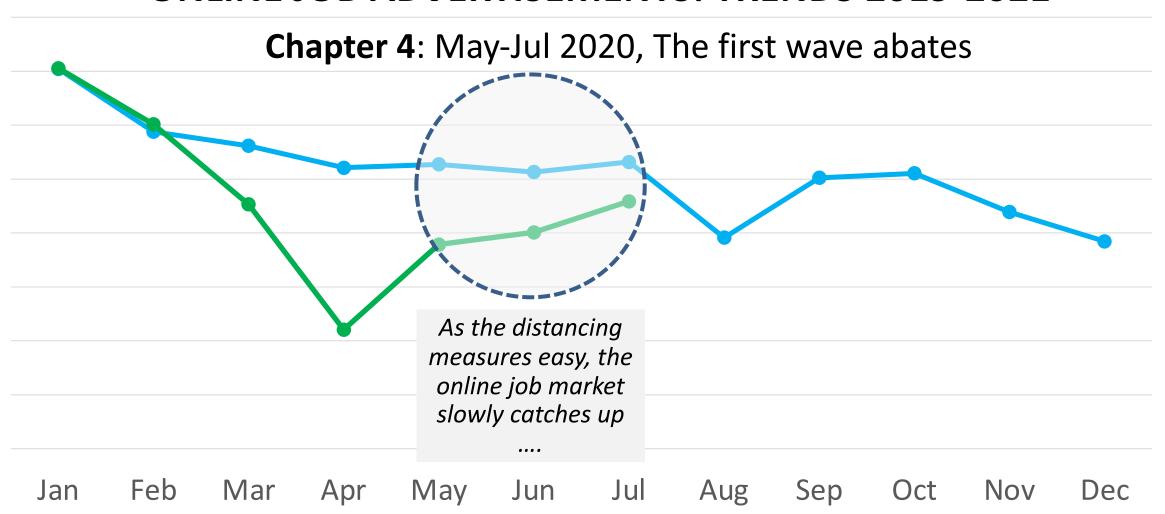


The Covid-19 hits. The plunge starts in March and reaches the bottom in April with strict lockdowns across Europe

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

→2019 →2020 →2021

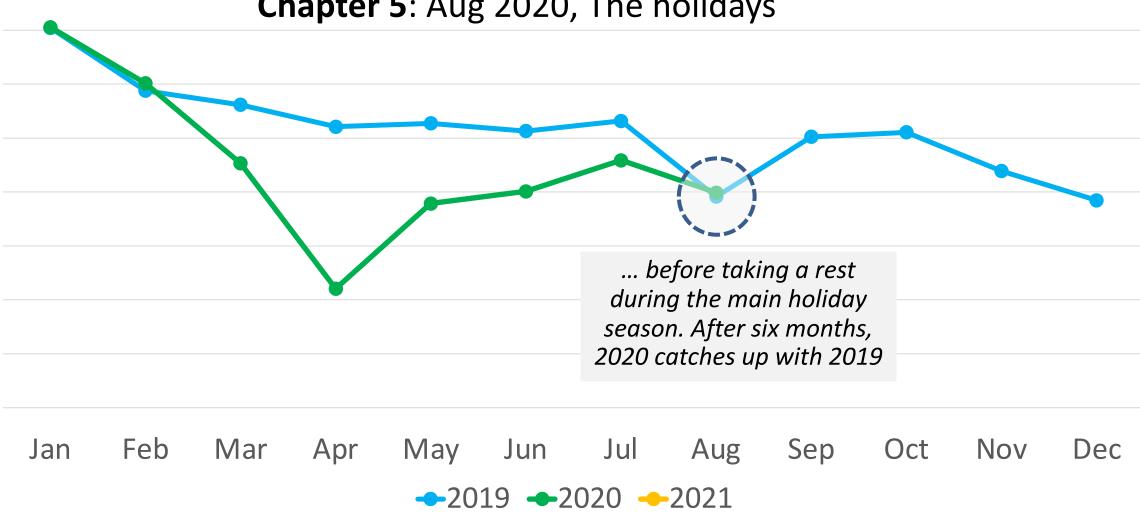




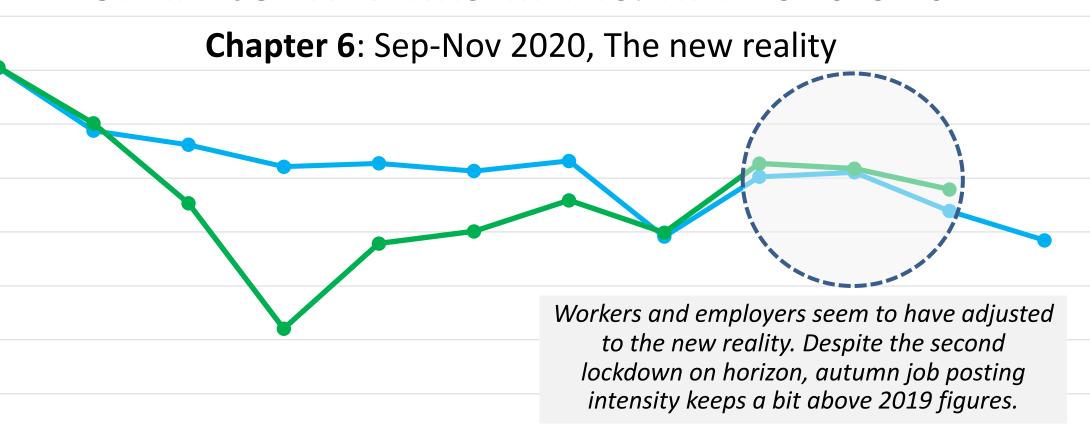
**→**2019 **→**2020 **→**2021







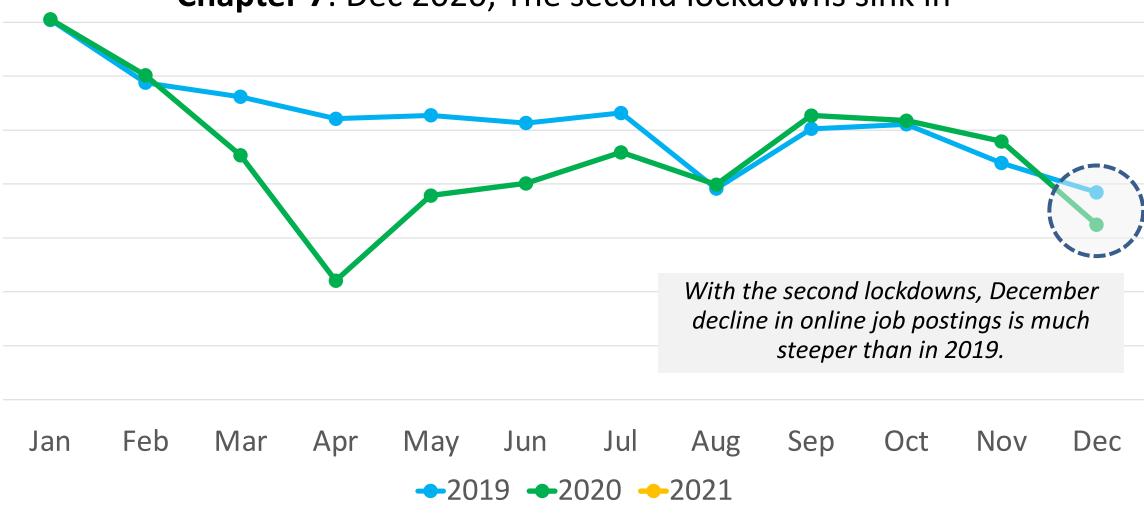




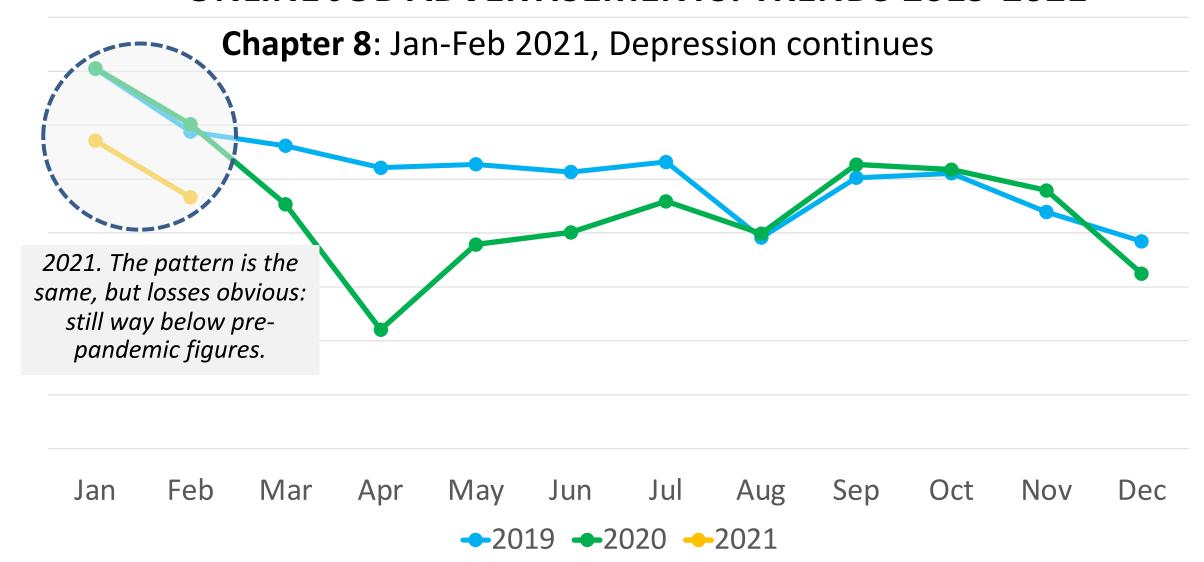




Chapter 7: Dec 2020, The second lockdowns sink in

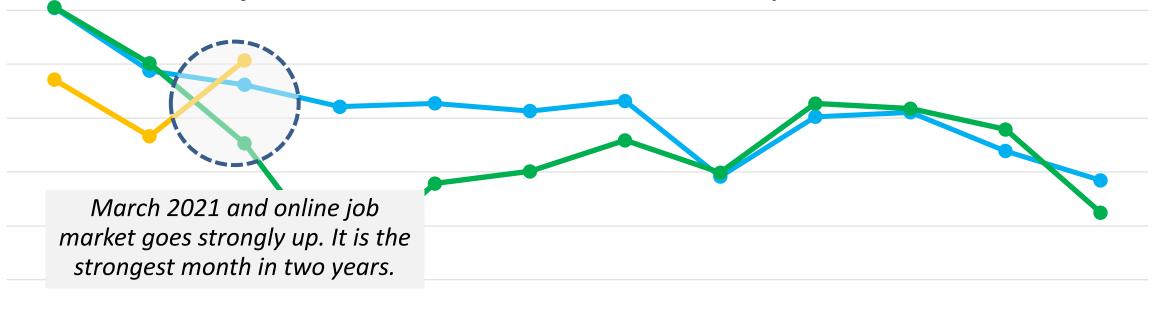








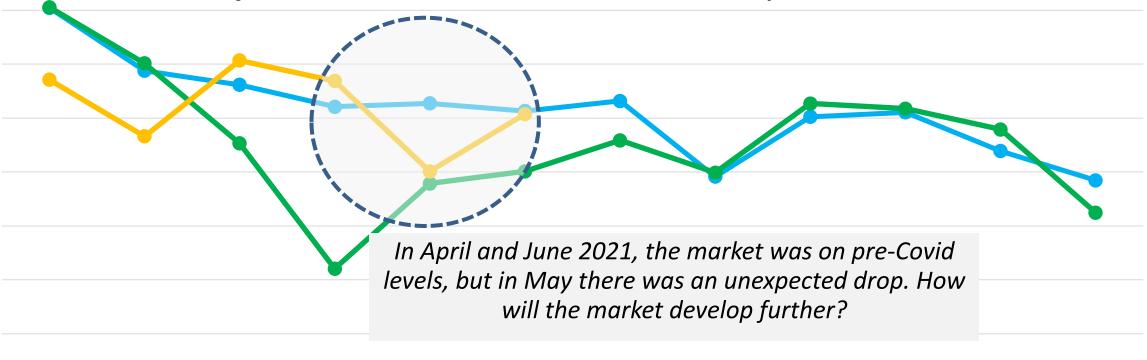
Chapter 9: Mar 2021, The final recovery at last?







Chapter 9: Mar 2021, The final recovery at last?



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

→2019 →2020 →2021



# Key takeaways:

- Sharp fall and quick recovery
- Long term impact almost invisible
- However:
- Decline in job postings ≠ job cuts (employers stop hiring before they start to fire people)
- Connection between rising OJAs and employment growth more direct (probably)
- **But**:
- Lesser impact on OJAs because teleworkable jobs more likely advertised online?

Context and validation with other data important!!



## Let's check the tool together



# Questions?

## Want to know more?

Skills OVATE

www.cedefop.europa.eu/en/data-visualisations/skills-online-vacancies

- OJAs in Cedefop Skills intelligence (former Skills Panorama; yearly averages for key variables) <a href="https://www.cedefop.europa.eu/en/tools/skills-intelligence/skills-online-job-advertisements">https://www.cedefop.europa.eu/en/tools/skills-intelligence/skills-online-job-advertisements</a>
- How to Skills OVATE
   https://www.cedefop.europa.eu/en/videos/skills-ovate-database-presentation
- Cedefop OJA and digital skills workshops (latest research, findings and videos in OJA field): <a href="https://bit.ly/3xWkv62">https://bit.ly/3xWkv62</a> and <a href="https://bit.ly/3h5Fa11">https://bit.ly/3xWkv62</a> and <a href="https://bit.ly/3h5Fa11">https://bit.ly/3xWkv62</a>



## Want to know more (and more)?

## **Year 2020 in OJA** data

**Building and OJA system** 

**Using OJAs to** inform skills policies

## Big data and artificial intelligence methods



#### **BRIEFING NOTE**

#### TRENDS, TRANSITIONS AND

The Covid-19 pandemic is changing skill needs and reshaping jobs, while challenging our understanding and analysis of them

c downturn that is more severe than the recession ving the 2008 global financial crisis (). In a little more than a year, the ubiquitous health threat has unsettled almost all areas of society and economy, learning and working being no exception.

In the previous crisis, many governments reacted by imposing severe austerity measures; policy responses to the current health crisis have been more nodating and, in many respects, bolder, Lawmakers in most EU Member States have taken action o alleviate its immediate effects and protect jobs,

Outcome of a knowledge-driven process of collecting, select-ing, combining and presenting evidence to map and anticipate shour market and skills trends

Skills forecasts capture long-term trends at an aggregate level; skills surveys depict skills develop-ment, utilisation and matching

BRIEFING NOTE LAPRIL 2021 LIGSN 1801-2411

#### TRANSFORMATION

#### Pandemic-induced social distancing measures and NEVER WASTE A GOOD CRISIS

confident in the economic fundamentals, viewing tion. Many see the structural changes in learning and working, brought about by the crisis, as innov ablers of the digital and green transitions. Emboldened by the already visible benefits of the economic changes and the funds made available through the are resolved to push ahead with the oreen and digi-

In making and shaping change and transitions reliable, customised, and well-communicated skills intelligence is more important than ever. Cedelop has provided skills intelligence to the EU for over a decade and coined the term long before its full optenlabour market change, it should not come as a surprise that skills intelligence is at the heart of the 2020 European skills agenda and the post-2020 EU policy framework for VET (5).

#### Covid-19 challenges skills intelligence

In 2020, labour market research into the impact of the pandemic focused on the vulnerability of jobs and limitations imposed by social distancing (\*). Such analyses have been using available surveys and octions or sectors in terms of their resilience in the wake of the pandemic and to shed light on groups of work ers most affected by it. However, this approach does











# Thank you



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