

# Local effects of immigration: labour markets and internal migration

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## Introduction: scope

- Local effects of immigration: huge topic!
- Today, we are at best just scratching the surface of some aspects of this issue...
- In particular:
  - We will be talking mainly about effects at destinations
  - We will focus on labour markets related issues, disregarding other issues such as fiscal effects
  - We are not distinguishing short vs. long term effects

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## Introduction: why do we care?

- European countries (and not only) are a major destination of international migrants (Münz, 2007) and simulations indicate that this will continue in the decades to come (Hanson and McIntosh, 2016; Docquier and Machado, 2017)
- The main worry about international migrants is always: how will they affect the native population? And, in particular, their **effects on the domestic labour market**

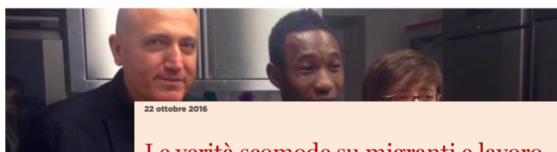


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### Dal Mediterraneo ai ristoranti di Milano, elogio degli "immigrati che rubano il lavoro agli italiani"

La storia di Daouda, ivoriano, che è stato assunto in uno dei migliori ristoranti di Milano grazie al progetto Sprar di Trezzano sul Naviglio. E altri commercianti ora si stanno interessando al progetto

di Lella Baratta



#### Le verità scomode su migranti e lavoro

Una ricerca del Cer sfata un tabù della sinistra europea. Nei Paesi del Sud gli stranieri fanno concorrenza ai locali. Al Nord pesano sul welfare

ENRICO PEDEMONTE

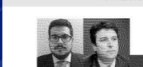
**Avenire**

**Analisi**  
Gli stranieri coprono i buchi, non rubano i nostri posti di lavoro

FRANCESCO SIMEZZI e MICHELE TERABONCHI

Gli immigrati rubano il lavoro agli italiani? E per quanto motivo è necessario impedire o comunque limitare il loro arrivo? È questa una delle modalità in cui oggi si sta rappresentando l'opacità fenomeno migratorio da parte di alcuni esponenti e intellettuali da alcuni anni, alimentando paure, rancori e sentimenti avversi.

A PAGINA 3



ANALISI / COSA DICONO I DATI AL DI LÀ DELLA PERCEZIONE COMUNE

### I migranti coprono i buchi non rubano posti di lavoro

Occupazione e salari, la concorrenza è tra stranieri

studi scientifici in materia confermano un quadro diverso da quello che viene presentato nel dibattito pubblico. In primo luogo i migranti si concentrano spesso e quasi esclusivamente in mestieri e settori professionali diversi da quelli ambiti e occupati dai lavoratori dei Paesi

The debate often revolves around this question:

Are immigrants “stealing” the jobs of natives, reducing their wages and “displacing” them?

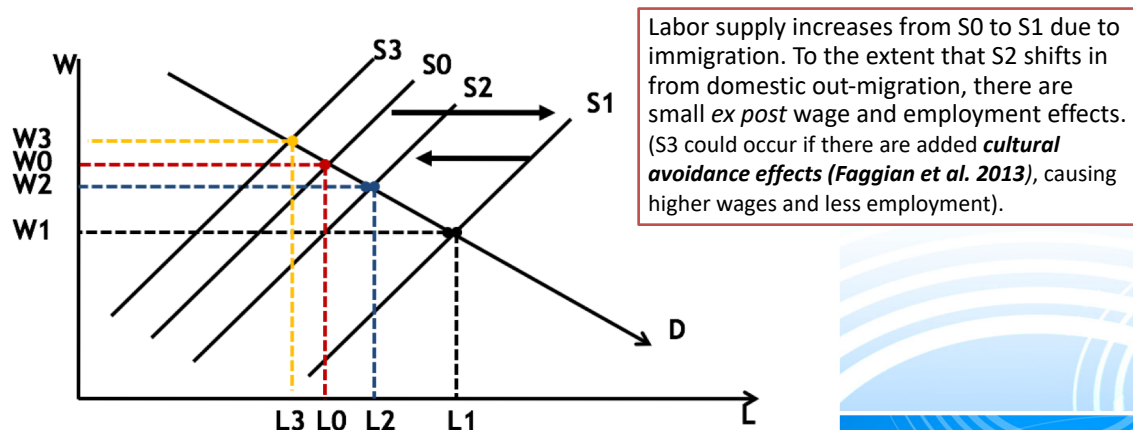


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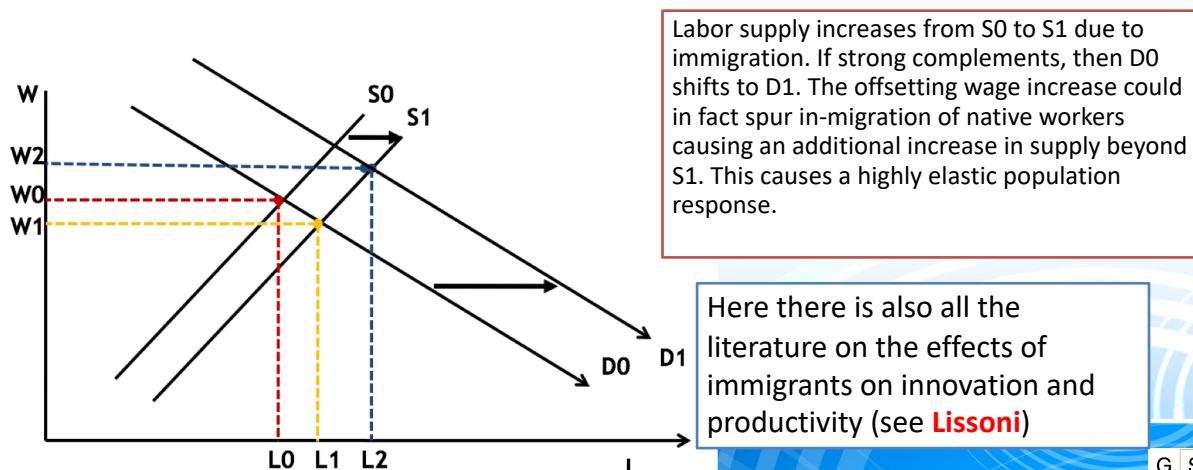
## Introduction: labour market effects

- The answer to whether or not immigrants negatively affect the labour market outcomes of natives depends crucially on two aspects:
  - The degree of “openness” of the host economy (Friedberg and Hunt, 1995). Here the role of **international trade** is fundamental (see **Bratti**)
  - The “**degree of substitutability**” between migrants and natives in the labour market

If natives and immigrants are **perfect substitutes** in the labour market, then the increase in labour supply leads to lower wages, which lead to native out-migration (**displacement of natives**)



If natives and immigrants are **complements** in the labour market, then the effect could actually be positive on wages and employment leading to internal in-migration rather than out-migration

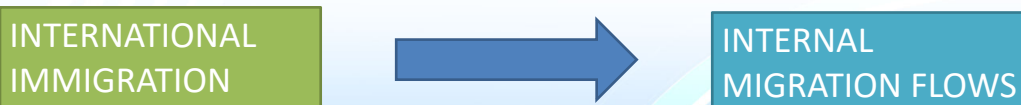


The beliefs on the **degree of substitutability** between natives and immigrants vary:

- a) **High** - Borjas (1995): gains from immigration for the USA are low, immigrants are not sufficiently 'different' from the stock of natives – suggests immigration policy to attract more *skilled migrants*
- b) **Low** – Greenwood (1996): the adverse effect on wages is only on other recent immigrants not on natives  
Card (2005): no significant effect on wages of native (either low or high skilled)  
Ottaviano and Peri (2005, 2008): overall immigration is beneficial for natives (even increasing their salaries...)
- c) **Effect dependent on skill-level of natives**– Orrenius and Zavodny (2003) & Cortes (2008): immigrants are more substitutable with low-skilled native – they affect only their wages

## Introduction: secondary migration

Moreover, even when immigration is concentrated in few gateway areas, **internal migration flows** allows the effects to spread across the country ('**bathtub model**', Borjas, 2003 & 2005; Partridge and Rickman 2008, 2009)



In the USA:

- Borjas (2003) and Partridge et al. (2008, 2009) find **strong domestic resident response** to international immigration.
- However, Card and DiNardo (2000) Card (2001) and Kritz and Gurak (2001) find that there is **little connection between foreign immigration and native out-migration**.
- Card and DiNardo (2000): they even say that an increase in immigrants in **certain skill groups** lead to a *small increase* in the native population of the similar skill groups (**complementarity**)
- Peri (2007), in the case of California, 1960-2004 immigration did not produce a negative migratory response from natives.





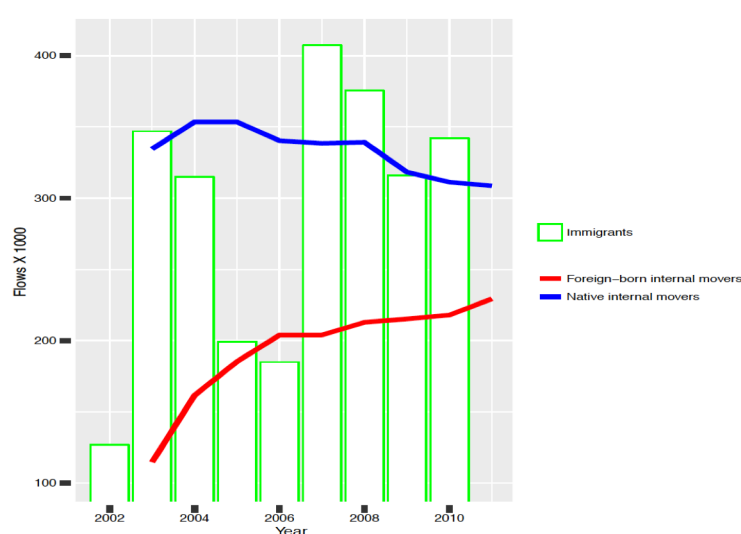
## The case of Italy

- For the case of Italy – similarly to Card and DiNardo - Mocetti and Porello (2010) find that immigration is positively associated with infows of **highly-educated natives (complementarity effect)**, and negatively associated with inflows of **low-educated natives (displacement effect)**
- However, this study:
  - Uses quite aggregate data (regions, **NUTS2 level**)
  - Does not consider the **effect of foreign immigrants on internal movements of previous immigrant cohorts**, a phenomenon gaining momentum in recent years



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## Annual flows of foreign immigrants and of interprovincial movements of natives and foreign-born residents



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## Basile et al. (2018): in brief...

We use **data on internal mobility at provincial (NUTS-3) level** by ISTAT ("Indagine sui trasferimenti di residenza") for the period **2002-2011** to estimate a modified **gravity model** (we correct for endogeneity using a control function approach and information on the origin countries of immigrants *à la* Beine and Coulombe, 2018)

Spatio-temporal trends (smoothing functions)

$$\log(\mu_{jkt}) = \beta_1 \log\left(\frac{Imm_{kt}}{Imm_{jt}}\right) + \beta_2 \log(\phi_{jk}) + \beta_3 \log\left(\frac{y_{kt}}{y_{jt}}\right)$$

$$\mu_{jkt} = E(m_{jkt}^n) \quad m_{jkt}^n \sim f^j(x_{s1}, x_{s2}, x_\tau) + f^k(x_{s1}, x_{s2}, x_\tau) \quad \text{bin}(\mu, \theta)$$

Number of migrants (with educational level  $h$  in the case of Italian residents) moving at time  $t$  from province of origin  $j$  to province of destination  $k$

Variable of interest: immigration

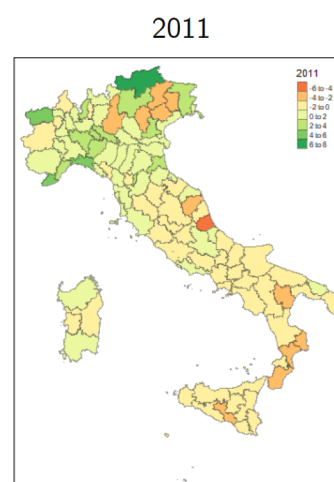
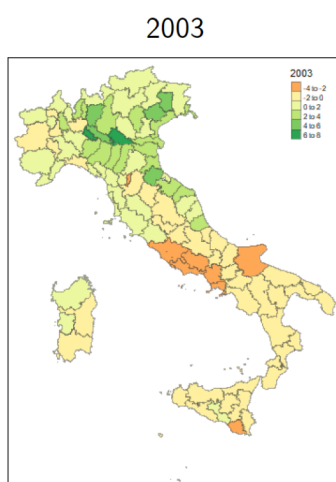
Distance and

- Other control variables:
- Disposable income per head
  - Unemployment rates
  - Housing prices
  - Industrial composition

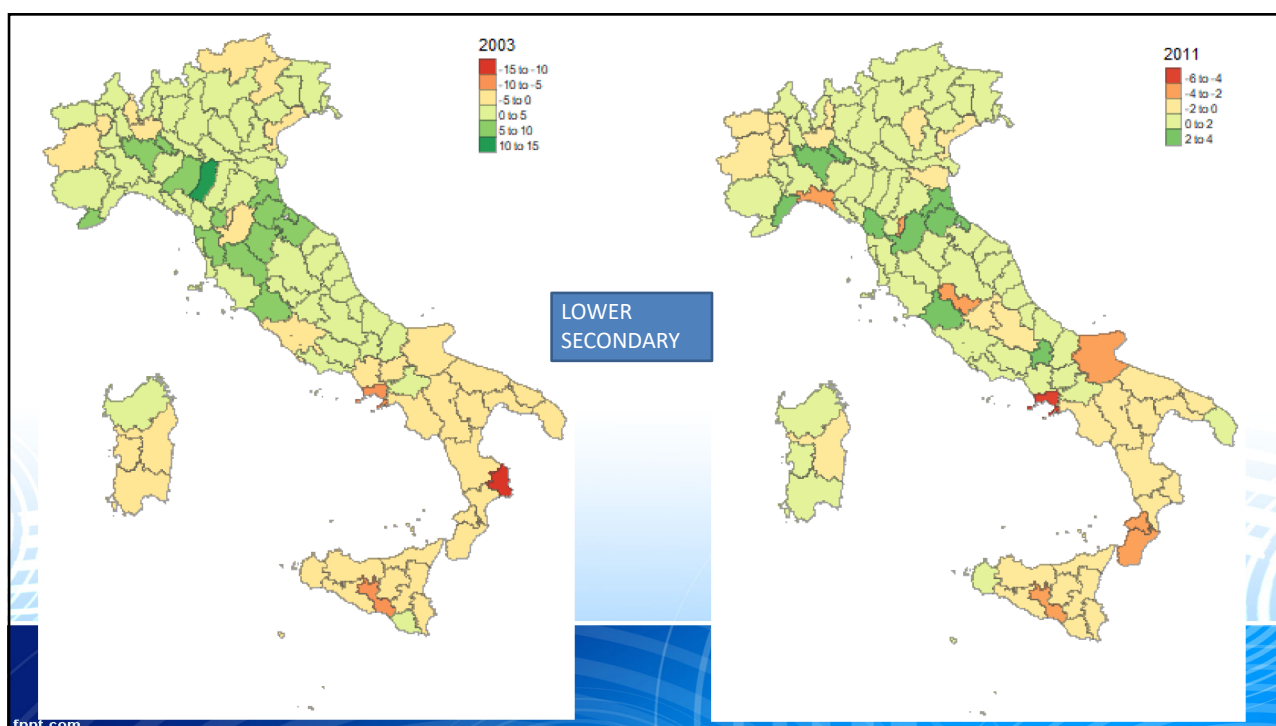
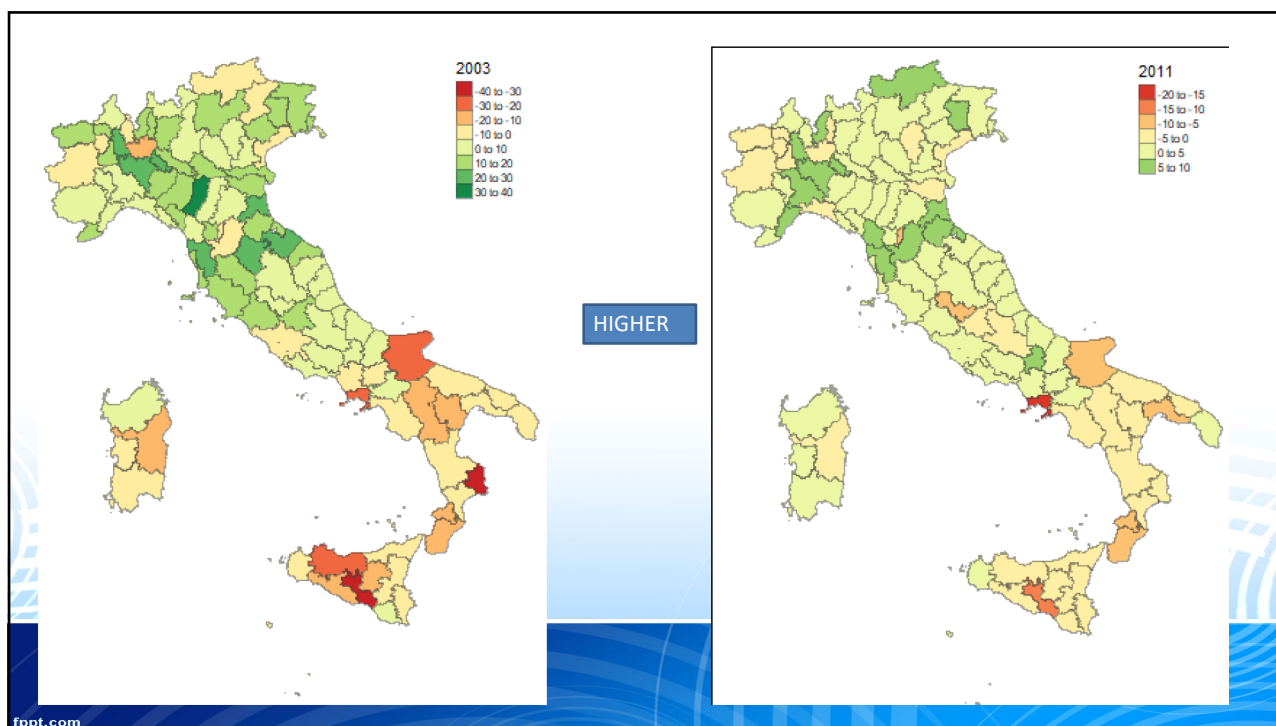
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Our dependent variables are the **internal flows of natives, divide by educational level** (4 categories: ) and the **internal flows of foreign-born**

## Internal mobility rates of foreign-born residents



G S  
S I





## Immigration rates from abroad of foreign workers

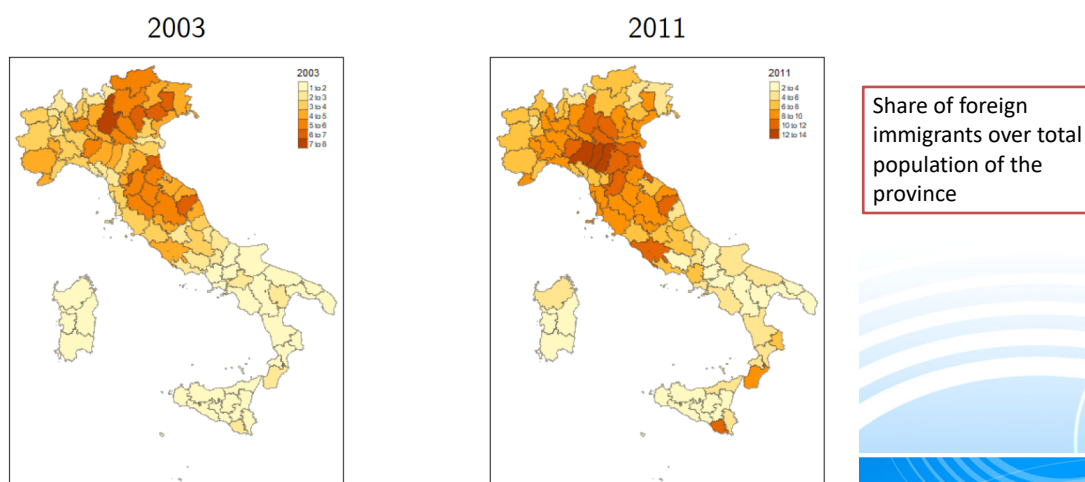


TABLE 4

Gravity models of internal mobility in Italy. Testing the relative incidence of foreign immigrants. Negative Binomial Estimates. Model specification (2) with spatio-temporal trends, accounting for endogeneity (second step CF approach)

	Primary	Italian citizens Lower sec.	Upper sec.	Higher	Foreign-born residents
<i>Parametric terms</i>					
<i>Coefficients (standard errors)</i>					
Intercept	-2.486*** (0.484)	-0.861** (0.398)	-1.328*** (0.322)	-0.954*** (0.304)	-2.557*** (0.221)
$\log(Imm_{kt}/Imm_{jt})$	-0.402*** (0.073)	-0.141*** (0.053)	0.096** (0.049)	0.548*** (0.059)	-0.298*** (0.051)
$\log(Inc_{kt}/Inc_{jt})$	0.165** (0.068)	0.044 (0.049)	0.079* (0.046)	0.057 (0.055)	0.099** (0.047)
$u_{kt} - u_{jt}$	-0.027*** (0.004)	-0.016*** (0.003)	-0.006** (0.003)	0.011*** (0.003)	-0.030*** (0.003)
$\log(House_{kt}/House_{jt})$	0.007 (0.019)	0.002 (0.014)	-0.007 (0.013)	0.010 (0.015)	0.051*** (0.013)
$\log(Agr_{kt}/Agr_{jt})$	0.045*** (0.009)	0.029*** (0.007)	0.001 (0.006)	-0.044*** (0.007)	0.004 (0.006)
$\log(Cons_{kt}/Cons_{jt})$	0.151*** (0.038)	0.017 (0.028)	-0.031 (0.026)	-0.097*** (0.030)	-0.047* (0.026)
$\log(Man_{kt}/Man_{jt})$	0.017 (0.022)	0.003 (0.017)	0.025* (0.015)	-0.036** (0.017)	0.062*** (0.015)
$\log(\phi_{jk})$	-0.723*** (0.005)	-0.789*** (0.004)	-0.814*** (0.004)	-0.814*** (0.004)	-0.978*** (0.003)
<i>Nonparametric terms</i>					
$\chi^2$ -test [EDF]					
$f(res)$	28.10*** [2.163]	12.28** [3.096]	14.03*** [3.040]	104.39*** [3.215]	135.27*** [3.956]
Spatio-temporal trends (ANOVA specification)	Yes	Yes	Yes	Yes	Yes

## Main results...

Displacement effect on other foreign-born and low-skilled natives.

Complementarity effects on high-skilled natives

TABLE 6

Gravity models of internal mobility in Italy. Testing the impact of foreign immigrants at origin and at destination. Negative Binomial Estimates accounting for endogeneity (second step CF approach)

	Italian citizens				Foreign-born residents
	Primary	Lower sec.	Upper sec.	Higher	
<i>Parametric terms</i>	<i>Coefficients (standard errors)</i>				
Intercept	-0.640 (0.687)	-1.119** (0.529)	-1.532*** (0.470)	-4.457*** (0.513)	-0.367 (0.467)
$\log(Imm_{kt})$	-0.125** (0.051)	0.014 (0.036)	0.139*** (0.034)	0.414*** (0.040)	-0.291*** (0.035)
$\log(Imm_{jt})$	0.415*** (0.050)	0.205*** (0.037)	0.016 (0.035)	-0.154*** (0.040)	0.238*** (0.036)

Same effect on native low skilled

However, where we had before insignificant parameters, now - breaking origin and destination up - we have some positive effects also on middle-skilled...

result for high parity at

displacement effect born are previous findings.

are displaced at destination opposite for the origin j

## Discussion and preliminary conclusions

- Our results indicate, in the case of Italy, a displacement effect of the immigrants on the internal mobility of foreign-born residents and of Italian citizens with a low education level, but also a positive impact on the internal mobility of natives with a high education level
- These findings suggest that **interregional migration is an important mechanism** through which the Italian labor market **adjusts to immigration**
- They also open up an interesting question: why is the displacement only happening for low educated natives? Is it a **“pure” human capital story** (immigrants simply are all low educated) or is it also a **signaling problem** (immigrants cannot “signal” their skills even when they have them)?

## Policy Implications

- On the one hand, **incentivizing human capital accumulation** is a viable option to reduce the displacement effect of immigration and, at the same time, to benefit low-skill workers (and the country overall) through increase in their productivity
- On the other hand, the most 'tricky' part is the integration of **foreign immigrants** and the **identification of their skill level**
- The missing ingredient in the integration process is a systematic assessment of the human capital of foreign immigrants. It is wrong to assume all of them have no or low skills.

- Where most (if not all) European countries are lagging behind is in **mapping the skills, education and competences of foreign migrants**
- The mapping and validation of these skills by the government should:
  - be included explicitly in the national dispersal policies to ensure a better matching between demand and supply of labor
  - help with the discrimination faced by humanitarian migrants with local employers often dismissing almost completely their qualifications and/or work experience (Damos de Matos and Liebig, 2014)

# Thank you!

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