

Refugee Migration to Germany Revisited: Lessons on the Integration of Asylum Seekers

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Introduction

Angela Merkel on the refugee challenge in summer 2015

"Germany is a strong country. [...] We have achieved so much, we will make it! We will make it, and where we face obstacles, we have to overcome them, we have to work on it."

Chancellor Angela Merkel, August 31, 2015

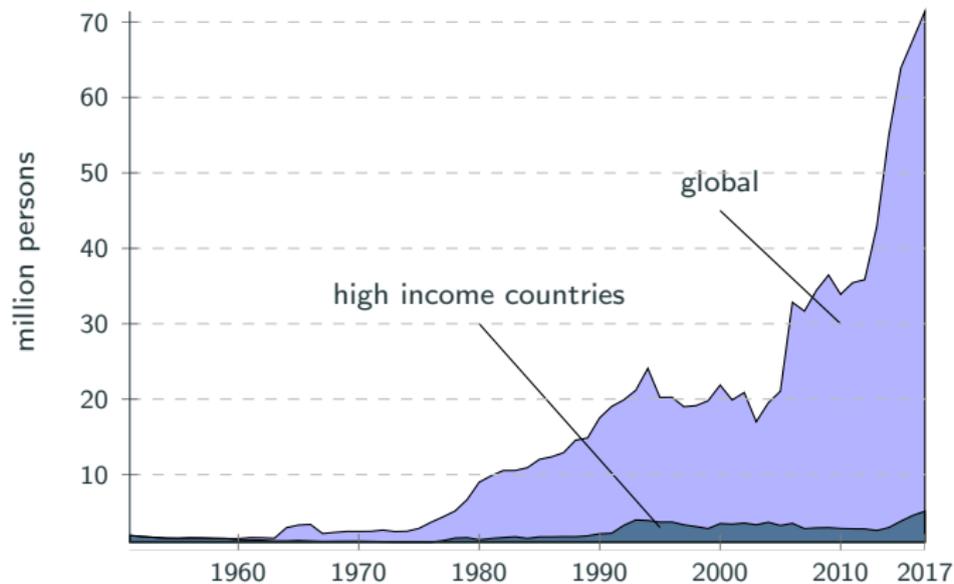
Germany's role in the global refugee migration process

Germany has emerged as the **main destination** for refugees among the high income countries in 2015 and the following years:

- **1.6 million asylum applications** have been lodged there from 2015 to 2018, compared to **3.9 millions** in the EU-28 (Eurostat, 2019)
- The total asylum seeker and refugee population numbered **1.4 millions** there by the end of 2017 (1.6 millions by the end of 2018), compared to **3 millions** in the **EU-28** and **5 millions** in all **high-income countries** (UNHCR, 2019; BAMF, 2019)
- The share in the global **population of concern** (**2 percent of 71.4 millions**) and the population of concern living **abroad** (**6 percent of 23 millions**) is nevertheless still moderate (UNHCR, 2019)

Global and high income country refugee stocks

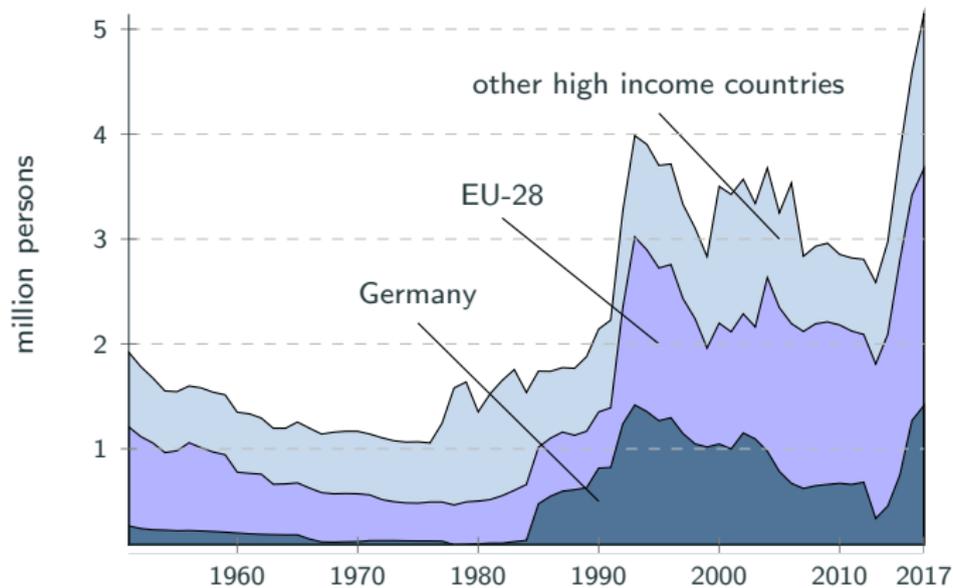
1951 - 2017



Sources: UNHCR (2018), Refugee Database, Geneva; own calculations.

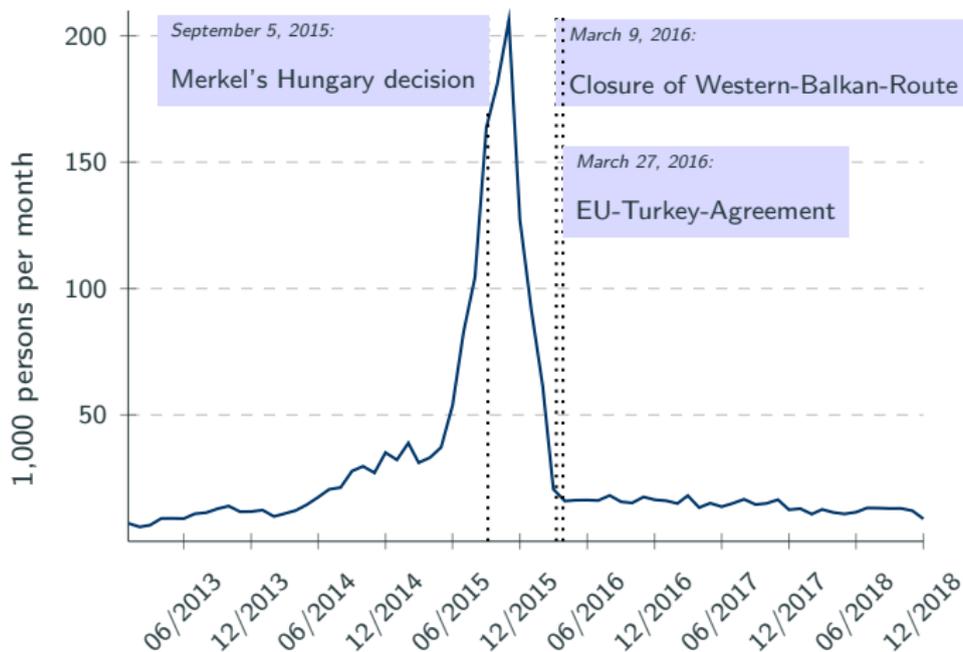
Refugee stocks in Germany, EU-28 and high income countries

1951 - 2017



Sources: UNHCR (2018), Refugee Database, Geneva; own calculations.

Refugee arrivals* in Germany, 1/2013 - 12/2018



* 1/2013 - 12/2016: BAMF-EASY-records; 1/2017 - 12/2018: first-time asylum applications.
Sources: BAMF, EASY-Statistics, special provisions; BAMF asylum statistics; own calculations.

The integration challenge and research questions

Angela Merkel considered the sudden refugee immigration surge as the **main challenge** of her chancellorship in her summer press conference 2015

In this study, we address the following questions related to this challenge:

1. How have **war, persecution** and **flight** affected the **structure of the refugee population** in Germany and their prerequisites for integration?
2. What do we know so far about the **integration** of refugees into the German **labor market** and other areas of society?
3. How do selected policy issues – **asylum policies, dispersal policies, language programs** and **health care policies** affect integration?

Our database

Beyond some macro and register data from social security records, we base our analysis on a unique data source, the **IAB-BAMF-SOEP-Refugee Survey** in Germany

The IAB-BAMF-SOEP-Refugee Survey is a **longitudinal household survey**

- of meanwhile some **7,500 refugees** in age 18+, plus some 5,600 children living in these refugee households who arrived from 1/2013 to 12/2016
 - 4,465 have been surveyed in the first wave 2016
 - 2,630 of these have been surveyed again in a second wave 2017
 - 2,965 have participated the first time in a refreshment sample or as household members in 2017
- survey instruments have been translated into all main mother languages and the survey is conducted face-2-face (CAPI)

In the analysis presented here we use some **5,544 persons** out of the 5,595 persons surveyed in 2017

Questionnaires of the survey

The **personal-biographical-** (450 questions) and the **household questionnaire** (100 questions) cover inter alia the following topics:

- education-, employment- and migration biographies
- refugee migration motives and refugee migration process
- education, cognitive abilities, behavioral characteristics, values & attitudes
- physical and mental health
- asylum procedures, registration
- language acquisition, human capital investment, program participation
- labor market integration, unemployment- and welfare benefits
- housing, infrastructure access

War, persecution and flight

Why are origin country and forced migration risks relevant?

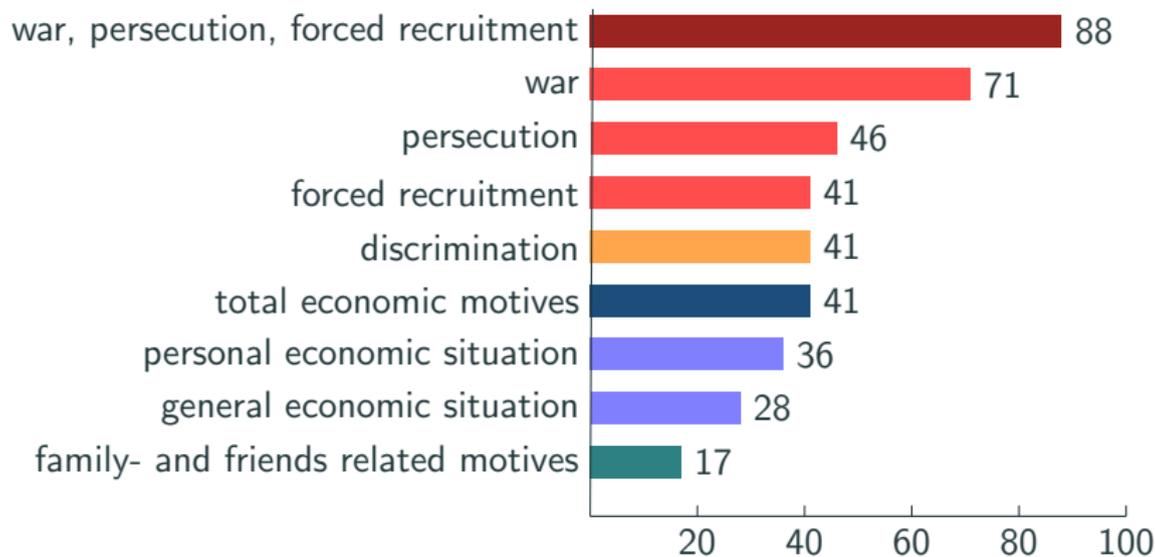
Refugees differ from other migrants in many respects since they are inter alia

- exposed to war, persecution and other human rights violations which may have involved existential risk and trauma,
- forced to conduct a risky and costly refugee migration process which may have again triggered personal losses and trauma,
- less prepared to migration and, as a consequence, have lower access to financial, social and informational resources which may facilitate integration.

For any analysis of the integration prospects of refugees and asylum seekers it is therefore useful to investigate first their exposure to origin country- and refugee migration risks in order to understand the mechanisms behind self-selection and the prerequisites to integration

Self-reported refugee migration motives

Shares of respondents who name motive in % (multiple responses possible)

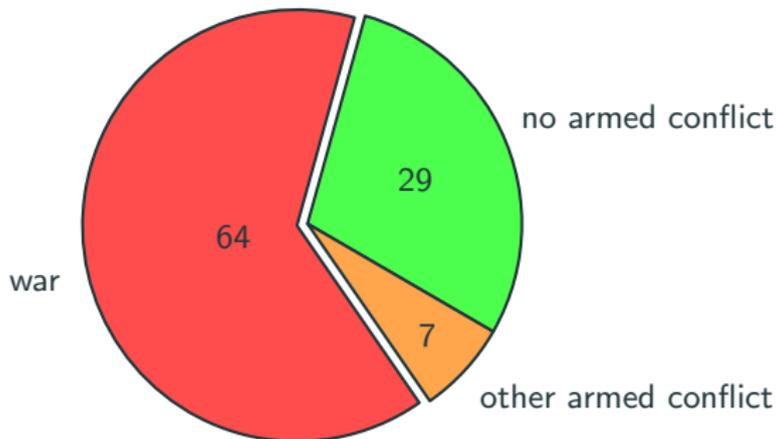


Notes: Darker bars comprise all persons who have at least named one motive of the motive group.

Sources: IAB-BAMF-SOEP-Survey of Refugees, 2017, weighted.

Origin country exposure to war and armed conflict

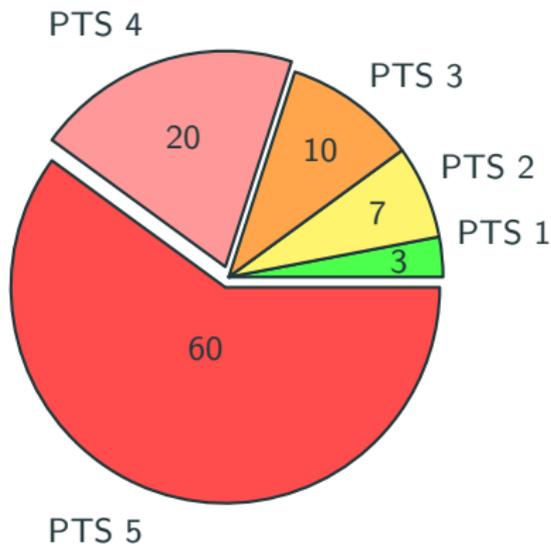
Country-of-origin-shares weighted by German refugee population 2018 in %



Source: Uppsala Conflict Data Program 2018, own calculations.

Origin country exposure to political terror

Country-of-origin-shares weighted by German refugee population 2018 in %



Notes: PTS 1: secure rule of law. PTS 2: Limited imprisonment for non-violent political activities. PTS 3: Widespread imprisonment for non-violent political activities. PTS 4: Political terror is common. PTS 5: Political terror has affected whole population.

Source: Political Terror Scale 2018, US State Department Classification; own calculations.

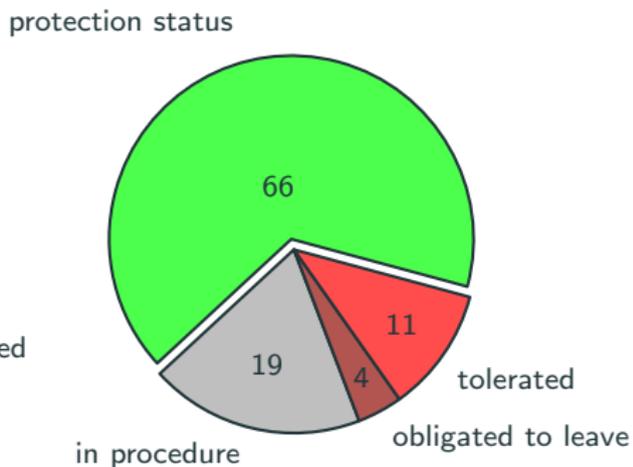
How is this reflected by decisions on asylum applications?

First-instance decisions on asylum applications, 2015 - 2018
Shares of total decisions in %



Source: BAMF Asylum Statistics, own calculations.

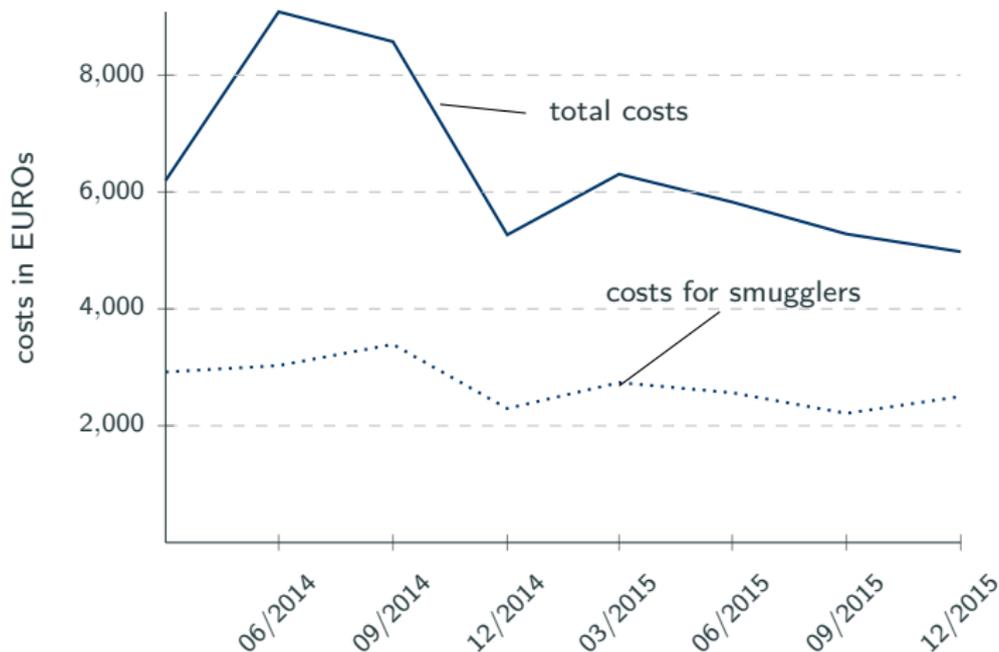
Legal status of population with refugee background, 12-31-2018
Shares of refugee population in %



Source: Central Register of Foreigners, own calculations.

Refugee migration costs

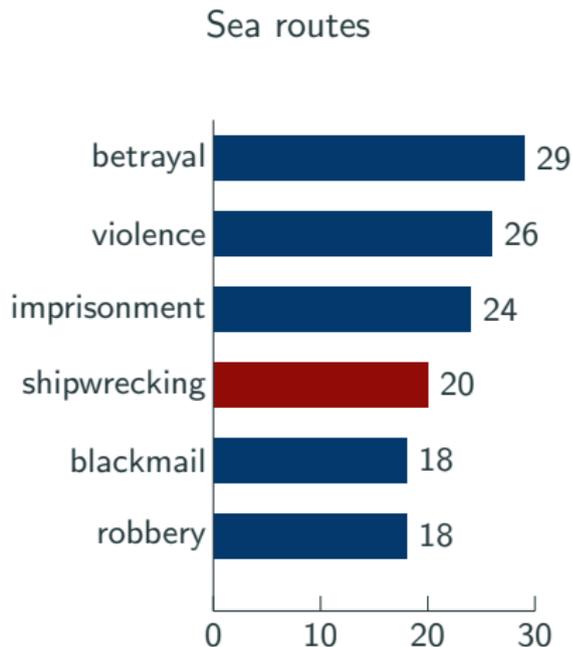
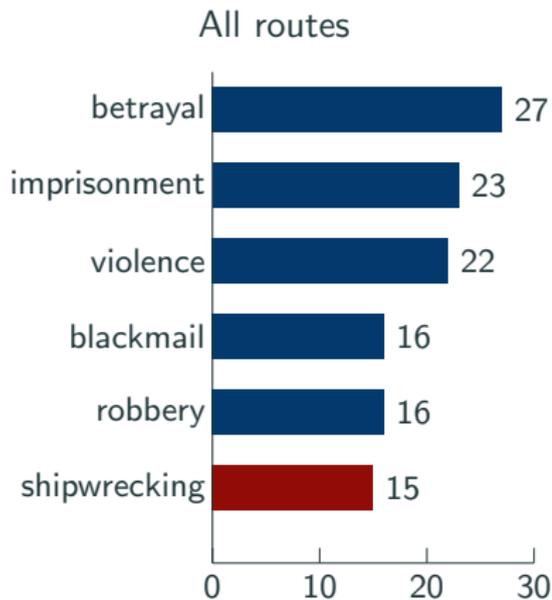
Costs in EUROS by quarter of departure



Sources: IAB-BAMF-SOEP-Survey of refugees 2017 waves (weighted); own calculations.

Refugee migration risks

Share of respondents who experienced respective event in %



Notes: Multiple answers possible.

Sources: IAB-BAMF-SOEP-Survey of Refugees, 2017, weighted.

Self-selection

Dimensions of self-selection

Experiences of war and persecution, displacement and the refugee migration costs and risks affect the **forced-** and **self selection** of refugees along different dimensions:

- **skills**, other abilities and **socio-economic status** (Aksoy/Poutvaara, 2019; Guichard, 2017)
- **gender** and **demographic selection**
- behavioral characteristics such as **self-confidence**, **risk preferences** and **reciprocity** (Brücker et al., 2016; Kroh & Schupp, 2016)
- **religious affiliations**, **convictions** and **values** (Brücker et al., 2016; Kroh & Schupp, 2016)

Refugee self-selection theories

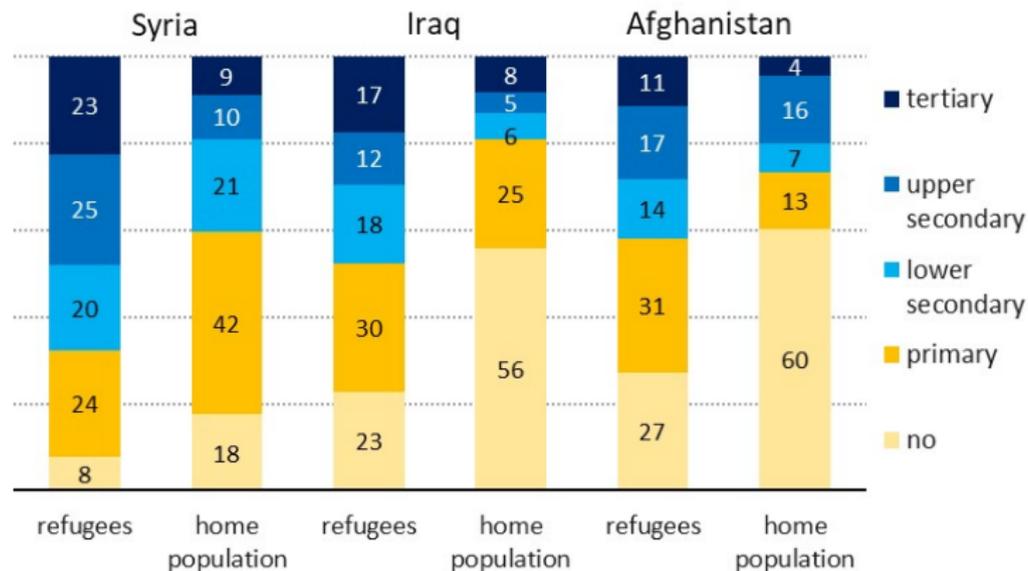
The Roy-Borjas-model predicts that **relative returns of education** and other abilities in conjunction with migration costs determine **self-selection** of migrants (Borjas, 1987; Brücker & Defoort, 2011; Grogger & Hanson, 2011)

Aksoy & Poutvaara (2019) predict that **origin country risk** exerts a **positive skill-selection impact** if (i) non-economic risks are equally distributed across the population and (ii) (log) wages are affected by the origin country risk

Conversely, **refugee migration risk** exerts a **negative skill-selection impact** if (i) non-economic migration risks are equally distributed across refugees and (ii) (log) wages at destination are affected by migration risk

Education of refugees compared to sending country average

Highest educational degree, share in %

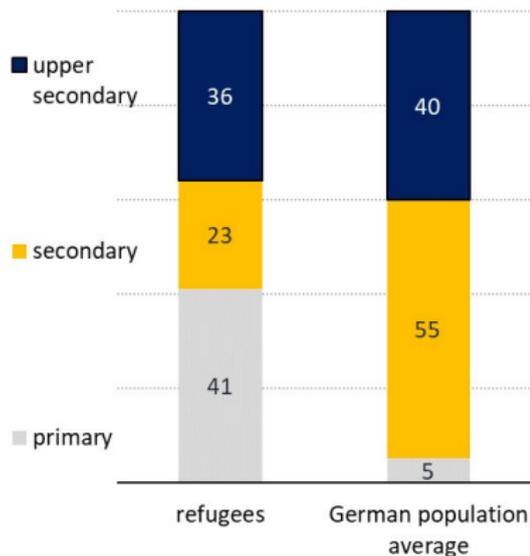


Source: Guichard, 2017.

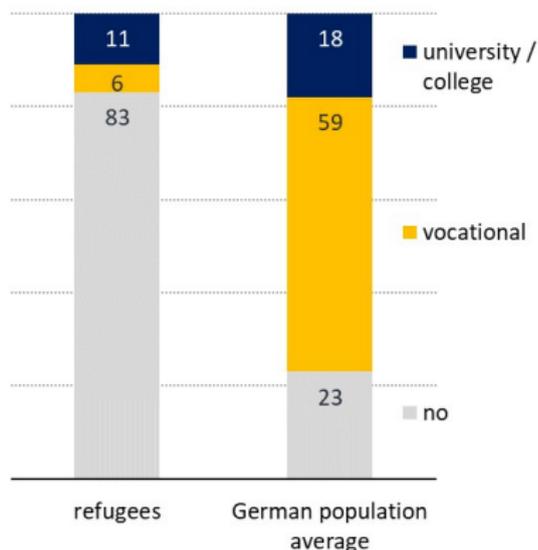
Education gap to German population

Highest educational degree, shares in %

Schooling degrees



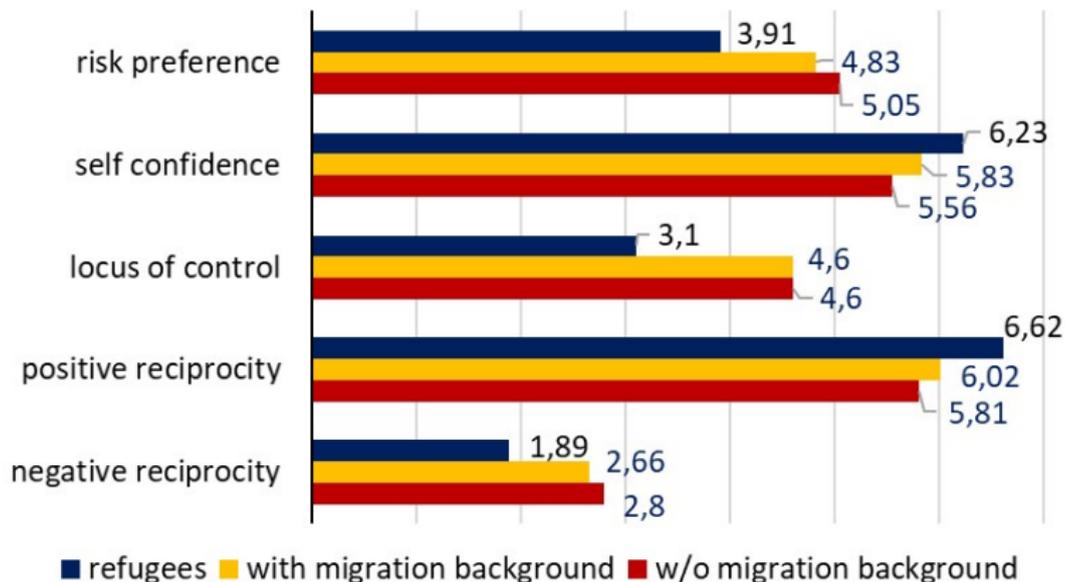
Professional degrees



Sources: IAB-BAMF-SOEP-Survey of Refugees, 2017, weighted, Microcensus, 2018.

Behavioral characteristics

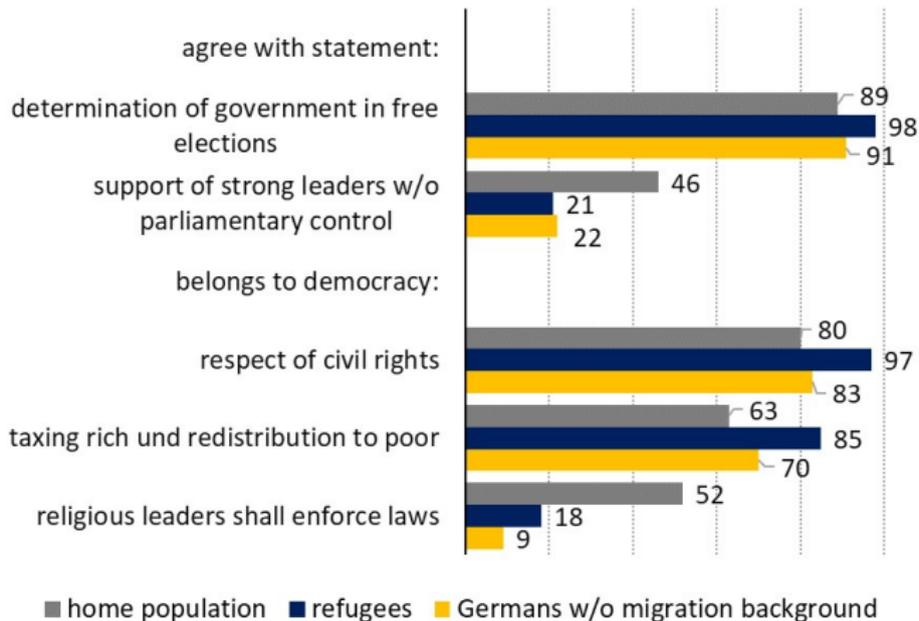
Identification with behavioral item on a scale from 0 to 10



Sources: IAB-BAMF-SOEP-Refugee Survey, 2017, weighted; SOEP.

Value selection: democracy, civil rights and rule of law

Agree largely or totally with respective statement, shares in %



Sources: IAB-BAMF-SOEP-Refugee Survey, 2017, weighted; World Value Survey.

Implications for integration and inclusion

Although refugees have **higher education** and a **higher socio-economic status** on average compared to the **sending country population**, there is a substantial educational gap with respect to the host country population. This is particularly true for professional degrees, such that they are "not a perfect match" for the demands in the German labor market (Dustmann, Fasani, Frattini & Schönberg, 2017)

But: 70 percent of the male refugees and 37 percent of the females have **work experience**. The complexity of tasks performed by the refugee labor force prior to migration resembles largely that of the German labor force

The **behavioral characteristics** distinguish the refugee population considerably in comparison to other population groups in Germany. Most of these behavioral characteristics of the refugee population are positively correlated with **professional status** and wages (Brenzel & Laible, 2017; Barrick & Mount, 1991; Salgado, 1997)

State of labor market integration

Labor market disadvantages of refugees

Labor market integration of refugees takes longer than that of other immigrant groups – if employment rates converge at all (Brücker et al., 2015; Fasani & Frattini, 2016)

This is caused by various factors:

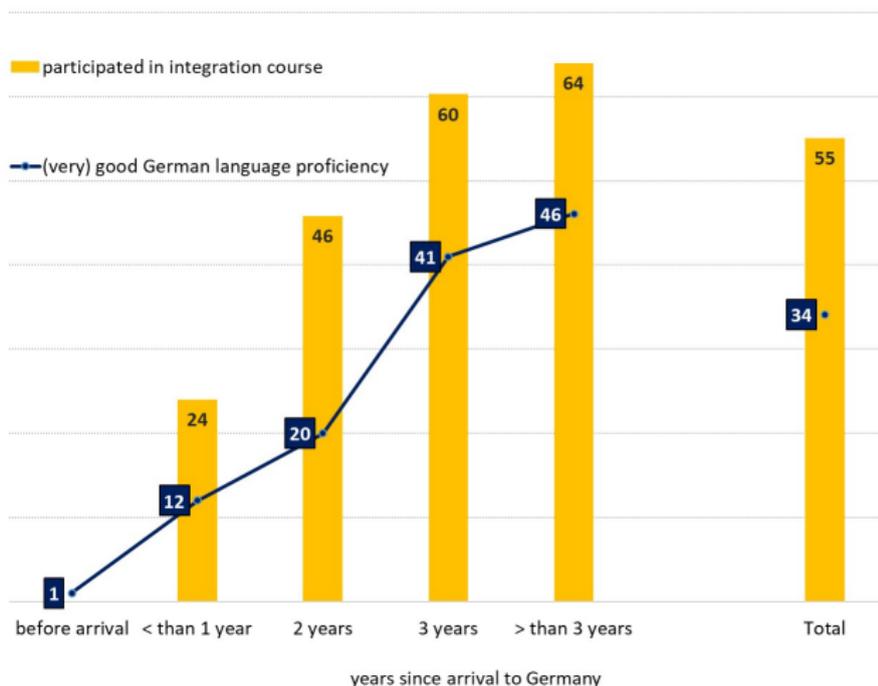
- **mismatch** between skills and abilities of refugees and labor demand in destination countries
- **poor preparation** of forced migrants
- **legal uncertainty** caused by asylum procedures and legal status
- **institutional hurdles**, employment bans and constrained labor mobility
- and many others

Stylized facts on the state of integration in Germany

- 80 percent of the refugees participated in **language programs**, 50 percent in **integration courses** (Brücker et al., 2019)
- the **German language proficiency** tends to increase continuously starting from very low levels
- the **completion** of **language-** and **labor market programs** is positively correlated with employment probabilities
- the **employment rates** tend to increase **faster** compared to previous refugee immigration episodes in Germany: about 35 percent of the working-age refugees who arrived since the begin of 2015 were employed in October 2018(BA-Statistik)
- there is a substantial **gender-gap** in employment rates

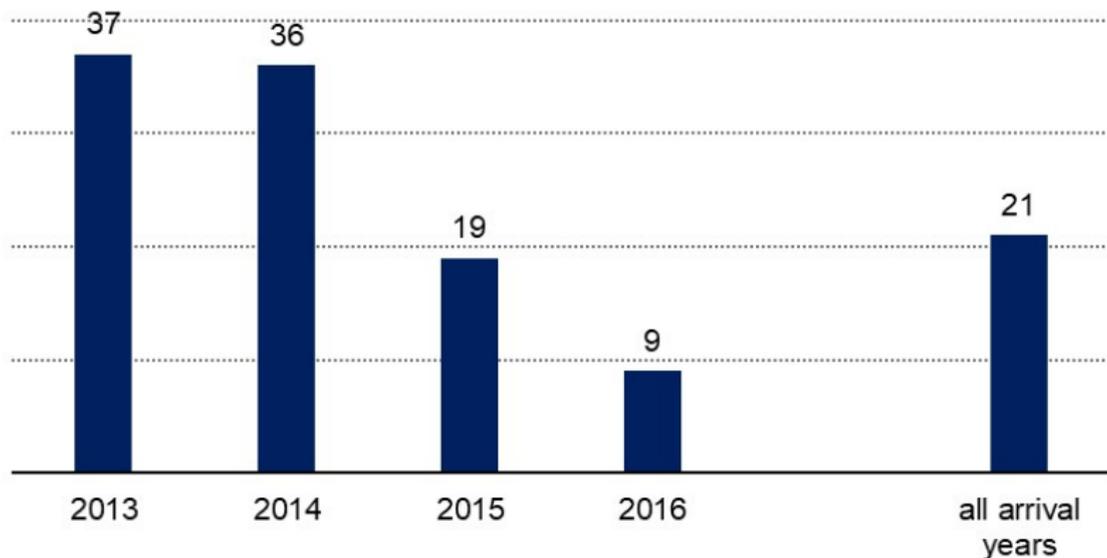
Integration course participation and language proficiency

Shares with completed integration course and (very) good German language proficiency in %



Source: IAB-BAMF-SOEP-Refugee Survey, 2017, weighted.

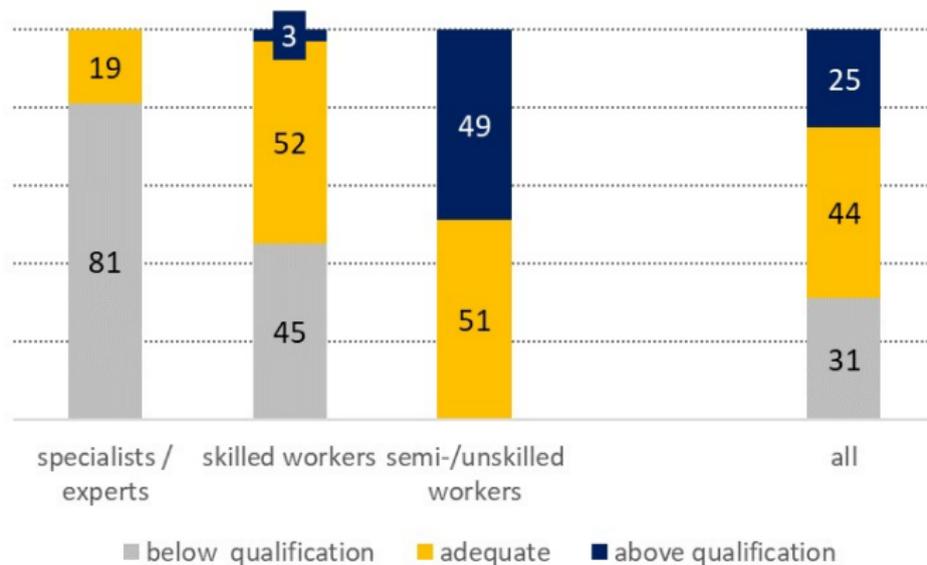
Employment rates by year of arrival, 2nd half-year 2017



Source: IAB-BAMF-SOEP-Refugee Survey, 2017, weighted.

Skill mismatch

Current job is adequate, above or below qualification, shares in %



Source: IAB-BAMF-SOEP-Refugee Survey, 2017, weighted.

Asylum policies

Outcome and duration of asylum procedure determine ...

- ... staying prospects
- ... economic & social integration (legal restrictions & incentives).
 - e.g. devaluation of human capital, depress in working aspirations

Scant empirical evidence

- **lengthy asylum procedures** reduce employment probability (Hainmueller, Hangartner, Lawrence, 2016)
 - BUT: only approved refugees long time since arrival

Institutional setting

BAMF "*integrated refugee management*": **three country clusters**

1. **good prospects to remain** (SYR, IRQ, IRN, ERI, SOM)
2. **safe country of origin** (West Balkan countries, GHA, SEN)
3. **others** (Dublin cases, complex cases)

Labor market access

- unlimited for approved refugees
- work permit for asylum-seekers and tolerated refugees after blocking period of 3 months

Language program access

- unlimited for approved refugees
- asylum-seekers with good prospects to remain and tolerated refugees may apply for publicly funded programs

Survival models for **transition rate to first job** and **transition rate to first (any) language program**

Sample

- labor market: 86,740 person-month observations (3,605 persons)
- language programs: 53,802 person-month observations (3,471 persons)

Explanatory variables of interest

- monthly status of asylum application (pending/ approved/ rejected)
- months in asylum procedure

Results (relative hazard ratio)

Transition into ...	First job	First language course
<i>Duration (in months) of asylum procedure</i>	0.98***	0.98***
<i>Outcome of asylum application (Ref.: Pending)</i>		
Approved	1.27**	1.75***
Rejected	0.96	1.77***
<i>Country group of origin (Ref.: Good perspectives to remain)</i>		
Safe countries of origin	3.82***	0.61*
Other countries of origin	1.40***	0.93
<i>Language course in Germany (Ref.: Not (yet) enrolled)</i>		
Currently enrolled	0.81*	
Course completed	1.98***	
Course completed and enrolled in the next course	1.19	
<i>Entered first job</i>		0.67***
Control variables	Yes	Yes
Unobserved heterogeneity	Yes	Yes
Person observations	3,605	3,471

Significance level *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$ (two-tailed test).

Conclusion

Lengthy asylum procedures impede *both* refugees' entry into employment & language programs

Approval of application accelerates labor market entry; decision on application accelerates language program entry

Refugees from safe countries of origin prioritize labor market entry

- improve staying prospects, earn money in time left

Refugees with good prospects to remain prioritize enrolment in language courses

- long-run investment in human capital; improve chances for successful, sustainable integration

Dispersal policies

Public debate: concerns about ...

- ... ethnic ghettos & parallel societies
- ... displacement effects on labor and housing markets
(Kürschner & Kvasnicka, 2018)

Empirical evidence: dispersal policies may harm labor market integration
(Edin et al. 2003, 2004; Damm, 2009; Fasani et al., 2018)

- ↑ job search costs, ↓ job matching efficiency
- ↑ spatial mismatch (Aslund, Östh, Zenou, 2010)
- ↓ spatial concentration/clustering of refugees
 - valuable resources through co-ethnic networks
 - less investment in language proficiency and other country-specific human and social capital

Institutional setting

Initial placement policies for asylum-seekers: *Königsteiner Schlüssel*

- annually updated, tax- and population based regional distribution

Asylum-seekers & those rejected face very **strict residency obligation** incl. travel ban ("*Residenzpflicht*", §56 Residence Act)

Free choice of residency after asylum approval **before Integration Act** of Aug-6-2016, but thereafter:

- **residency obligation for further 3 years even after approval**
- in several Federal States: more restrictive place-obligation even at the district- (county-) & municipality level
- exceptions for employees with at least 15 weekly working hours and 700 EUROS monthly income

Survival models for **transition rate to the first job**

Sample

- refugees approved since Jan-2015: 66,102 person-month observations (2,964 persons)

Treatment

- **geographical & temporal variation** in implementation of the law
- approval in **restrictive treatment state after reform** or up to 6 months before due to retrorespective application of obligation

Results (relative hazard ratio)

	Model 1	Model 2	Model 3
<i>Treatment: Approved in treatment state after reform or up to 6 months before</i>	0.715**	1.046	0.560***
<i>Approved</i>	1.080	1.065	1.079
<i>Local unemployment rate (Ref.: < 20th percentile)</i>			
20th – 80th percentile		0.790	
X Treatment		0.686	
> 80th percentile		0.720	
X Treatment		0.403**	
<i>Local population size (Ref.: ≤ 50th percentile)</i>			
> 50th percentile			1.044
X Treatment			1.658*
Control variables	Yes	Yes	Yes
FE for time, region, approval-date	Yes	Yes	Yes
Person-observations	2,964	2,964	2,964

Significance level *** $p < 0.01$, ** $p < 0.05$, * $p < 0.10$ (two-tailed test).

Adverse labor market effects of the "restrictive" small-scale, i.e., local implementation of the residency obligation for approved refugees

Evidence for perpetuation of a **spatial mismatch**. Particularly negative effects for regions (counties / municipalities) with unfavorable labor market conditions in terms of

- small labor markets (low population density) and
- high unemployment rates.

Language programs

Language acquisition is a crucial first step in successful integration of refugees

- refugees often arrive without host country's language proficiency
- early investments in language courses for refugees are necessary
- significant future economic benefits for the host society (tax contributions and lower welfare expenditures)

Empirical evidence suggests strong link between language skills and migrants' labor market opportunities (e.g., Bleakly and Chin, 2004; Chiswick, 1978)

- scant empirical evidence for refugees

BAMF Integration courses

- pre-existing language training program offered by the federal office for Migration and Refugees (BAMF)
- 600 hours of instructions (general integration course), standardized curriculum
- estimated costs: 2.9 Euros per participant per hour

BA language training program

- temporary, ad-hoc language training program administered by the federal Employment Agency (BA) to meet demand during the 2015 crisis
- 320 hours of instructions, no standardized curriculum, rapid roll-out
- estimated costs: 4.8 EUROS per participant per hour (in total 400 million EUROS)

Empirical method

Database: **Integrated Employment Biography (IEB)**

- administrative data for all asylum-seekers arrived between Jun-2015 and Jun-2016
- male refugees, aged 18-35 at arrival

Analysis of BA program

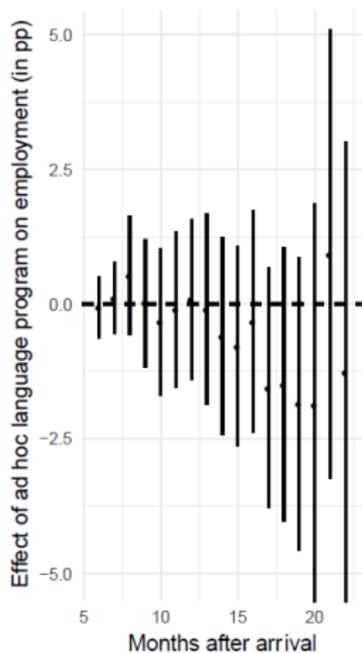
- regression discontinuity design (RDD) on employment probability
 - comparison of refugees around the cut-off date of program eligibility
- treatment = refugees from SYR, IRN, IRQ, ERI registered on or before December 31, 2015 (intention-to-treat effect)

Analysis of BAMF program

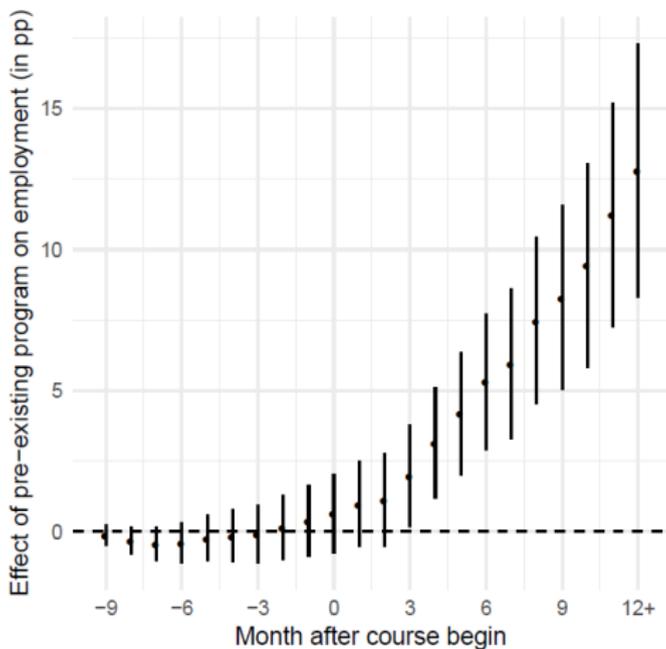
- interactive fixed-effect regression (Bai, 2009) on employment probability
- comparison of refugees enrolled into courses at different points in time

Results: change in probability of employment in %-points

BA language program



Integration courses



Sizable gains in terms of higher employment rates for refugees participated in the pre-existing **comprehensive language program** ("Integration course")

No discernible gains for refugees eligible for the **ad hoc language program** (BA language training program)

- ad hoc program may have lacked quality and quantity of instructions necessary for sufficient German proficiency
- selection into preexisting program is more positive

Health policies

High relevance of health status for individual

- **education achievement** (Baird et al., 2016)
- **economic integration** (Chatterji et al., 2011)
- **social inclusion** (Stephoe et al., 2015)

Adverse economic and fiscal effects through, e.g., fewer hours worked or absenteeism (Hanna, Oliva, 2015)

Institutional setting

Asylum-seekers & those rejected have only **limited access to the health system** through a restrictive administrative approval procedure in the first 15 months of stay

Since Oct-2015: **asylum procedure acceleration law** opens the possibility for regional administrations, in cooperation with the statutory health insurance funds, to issue **electronic health cards (eHC)** to asylum-seekers before the end of the 15-month period.

- Regional & temporal variation in access to health care: quasi-experimental setting

Empirical method

Cross-sectional OLS for logged health indicators:

- PCS: physical component summary scale
- MCS: mental component summary scale
- PHQ-4: symptoms of depressive illness and anxiety
- RHS-13: refugee health screener

Three "first access paths" to the health system (if at all):

- via policy change → **treatment**
- via asylum approval
- via duration of stay (15 months) or
- not eligible

Sample: 7,384 persons out of which 11% got the eHC through the reform

Results

	log PCS	log MCS	log PHQ-4	log RHS-13
<i>Eligibility to eHC</i>				
<i>(Ref.: via policy change)</i>				
Via status approval	-0.00	-0.03	-0.06	0.37***
Via duration of stay	-0.01	-0.04	0.08	0.31**
Non-eligible	0.00	-0.07**	0.07	
Controls	Yes	Yes	Yes	Yes
FE for origin country & 1st district	Yes	Yes	Yes	Yes
Person-observations	5,087	5,087	3,086	1,805

Significance level *** $p < 0.01$, ** $p < 0.05$, * $p < 0.10$.

Conclusion

No effects on physical health (no group differences at all)

- Young age structure of refugee population

Higher mental well-being through health care access, irrespective of access path

No clear picture with regard to depression symptoms and anxiety

Highly significant treatment effect on emotional distress

- Early access through the reform reduces the risk of post-traumatic stress disorder substantially

Conclusions

Conclusions

1.6 million asylum applications between 2015 and 2018: big challenge for German society and economy

Overwhelming share of refugees has legitim reasons for protection
→ will stay in Germany

Available evidence points towards favorable self-selection of refugees, but education gap in terms of professional degrees, missing German language proficiency and other factors are severe impediments to integration

Still, considerable progress has been achieved in last four years

How can policies foster integration? Our paper has discussed four selective, but highly relevant policy variables

Asylum procedures

Fast asylum procedures and **approval of asylum claims** facilitate labor market integration and language program participation

Therefore, asylum policies should strive for efficient and rapid asylum procedures to ensure (early) **legal certainty** for asylum-seekers and employers

The German office in charge for asylum procedures (BAMF) introduced a **cluster system** stratifying country-of-origin-groups according to their staying prospects

- overall length of asylum procedures ↓
- however, prolongation for non-prioritized groups → economic & social costs

⇒ Social and economic costs could have been reduced by **lifting legal restrictions** on program participation and labor market access for non-prioritized persons

Dispersal policies

Political concerns about ghetto formation and parallel societies

Residency obligation for refugees restricts secondary migration for further **three years** after approval

Evidence shows **negative effects** for labor market integration two years after reform

- particularly harmful in economically unfavorable regions

Policy alternatives

- allow **free of movement** for refugees at least after approval of applications
- **prevent 'inefficient' initial distribution** → match refugees' skills and regional labor demand (Bansak et al. 2018)
- reduce allocative inefficiency by introducing a '**negative residency obligation**' in municipalities where threshold level is exceeded

Comparison of two major programs

- Well-established **BAMF Integration Courses** versus ad hoc, **temporary language program** of **Federal Employment Agency (BA)**

Although jury on crucial 'success-component' stands out, well-established, **high-quality** and comprehensive language & integration courses seem to work in contrast to **ad hoc programs**

Substantial gains for **individual integration**, **higher tax** and social security contributions and **less welfare expenditures** for host country, while expenditures of language programs are relatively low

Initial evidence points towards **high need for health care** among refugees
However, asylum-seekers are **virtually excluded**, not only in Germany but around the world

Policy should open up **early treatment options**, in particular for mental and post-traumatic disorders

- fundamental prerequisite for integration into labor markets and society
- relief of the welfare state: early detection, avoidance of follow-up costs of treatment