

QuantMig Teaching Materials

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QuantMig

The deliverable – Interactive quiz + teaching materials

- ✓ Targeted at **non-scientific audiences** and particularly younger people at secondary schools.
- ✓ Quiz allows users to **play with QuantMig migration simulations on future trends** and understand basic patterns of population change through migration – size and age distribution.
- ✓ The **teaching units focus on migration uncertainty** and are divided into 5 sections and include group work and task sheets, as well as background information for the teachers.
- ✓ Both the quiz and the teaching materials were conceived to provide knowledge in an **easy-accessible and entertaining way**.
- ✓ **Tested** in schools and with students outside schools. Materials were developed both for **teachers' use and self-teach** as individuals can go through the materials on their own.

What is our goal and what do we offer?

- By playing with real simulation results on the future of migration in Europe, students get interested in learning more about **uncertainty around migration and how to approach it.**
- Uncertainty around future trends is framed as a **natural part of the social sciences** and the materials offer a chance for students to think about how to use flexible thinking and techniques to develop research results and recommendations.
- **All content is based on QuantMig deliverables.**

Test your demography skills!

Start



Tell me, where do you live?



Austria



Belgium



Bulgaria



Croatia



Cyprus



Czech Republic



Denmark



Estonia



Finland



France



Germany



Greece



Great Britain



Hungary



Iceland



Ireland



Italy



Latvia

What do you think is the percentage of foreign-born people living in this country?

0-20%

20-40%

40-60%

more than 60%



QuantMig Quiz

- Tell me, where do you live?
- *What do you think was* the **percentage of foreign-born** people living in this country in 2020?
- **Answer:** Good! /or: **We estimate** it is XXX.
- *What is your best guess* on **how things may change in 2050?**
- **Answer:** Interesting! **Our guess based on our scientific work** is that the percentage of foreign-born people will increase to XXX/decrease/no change in the future.
- Let's now play a different game! Tell me, **how old are you?**
- *What do you think is the percentage* of foreign-born people **of your age group** living in your country?
- **Answer:** Good! /or: The correct answer XXX



Migration & Migration Uncertainty Predicting Immigration



Micro-Level Decision Making Creating Index Variable



Macro-Level Drivers Examining Trend Lines



Natives' Perception of Migrants Determining Policy Areas from Data




Migration Policy Developing Policy Recommendations

Lesson 1
Migration & Migration Uncertainty

Students will:

- 1. Look at the cost-benefit uncertainty to migration
- 2. Understand how the cost-benefit uncertainty to migration
- 3. Explain the effects of cost-benefit uncertainty to migration



Summary

What are some potential costs/benefits that might occur in the future and how do we know they will occur? How do we know if they will occur?

Key Terms

Migration
The movement of people changing their place of residence (based on length of time) from one area to another.

Immigrant
A person who has moved from one country to another to live permanently.

Emigrant
A person who has moved from one country to another to live permanently.

Full Factor
A model that includes all the factors that influence migration.

Reflection Questions

What are some potential costs/benefits that might occur in the future and how do we know they will occur? How do we know if they will occur?

Notes

Maths
Predicting Total Immigration

Introduction

Use the data below to predict the total number of immigrants in the future. You have a perfect prediction for each year.

1. The number of immigrants in the year 2010 is 100,000.
2. The number of immigrants in the year 2011 is 110,000.
3. The number of immigrants in the year 2012 is 121,000.
4. The number of immigrants in the year 2013 is 133,100.

Instructions

Step 1: Use the data to predict the total number of immigrants in the year 2014. Use the data to predict the total number of immigrants in the year 2015. Use the data to predict the total number of immigrants in the year 2016. Use the data to predict the total number of immigrants in the year 2017. Use the data to predict the total number of immigrants in the year 2018. Use the data to predict the total number of immigrants in the year 2019. Use the data to predict the total number of immigrants in the year 2020.

Year	Total Immigration	Percent Change
2010	100,000	
2011	110,000	
2012	121,000	
2013	133,100	
2014		
2015		
2016		
2017		
2018		
2019		
2020		

Data in Comparison

What are some potential costs/benefits that might occur in the future and how do we know they will occur? How do we know if they will occur?

Lesson 2
Micro-Level Decision-Making

Students will:

- 1. Learn that different migrants may evaluate the same country differently
- 2. Learn that people become migrants for many different reasons
- 3. Look at the drivers of migration from different levels including the macro and micro level



Lesson 1

Migration & Migration Uncertainty

Materials

- [Workbook](#)
- [Slides](#)
- [Teaching Guide](#)

The first lesson introduces students to the topics of migration and migration uncertainty. The idea of uncertainty will be a key theme throughout all of the lessons and will show students how uncertainty is a natural part of the social sciences and how we can use flexible thinking and techniques to develop research results and recommendations. This lesson will also introduce the key concepts that will be used in the following lessons and allow students to think reflectively about their existing opinions and knowledge on the topic.

Students will:

- Learn how we conceptualise uncertainty in migration
- Understand techniques to describe and reduce this uncertainty
- Explore the effects of dataset size on research results

[Link](#)

Thank you!

http://www.quantmig.eu/project_outputs/teaching_materials/

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