EU Economics: Optimum Currency Area Theory University College Dublin Spring 2017

Optimal Currency Areas

An important part of European integration is monetary integration, as we have seen with the introduction of the Euro. Now within economics there is a theory that sets out a systematic way of analysis to decided whether it makes sense for a group of countries to give up their national currency in favour of a common currency. This theory is known as the **optimum currency area** theory.¹

Benefits of a Common Currency Area

Let's start by looking at the benefits of having a common currency, or for countries to form a common currency area. There are a number of advantages which include

- 1. The lowering of transaction costs
 - Due to a common currency there is no need to discuss the currency of transaction
 - Exchange rates will also be eliminated
 - As such, there is no loss of value in transaction²
 - Lowering of costs might lead to increases in competition
- 2. Price transparency
 - Prices are directly comparable across different regions within the currency area
 - Increased transparency might again increase competition, which is good for consumers
 - Additionally it can create trade opportunities, due to reduction of the border effect³
 - Price transparency and the associated increases in competition will also have effects on wage setting⁴
- 3. Reduction in uncertainty
 - Exchange rate risk is eliminated
 - Removing the risk resulting from exchange range regime will be beneficial to the levels of foreign direct investment⁵
- 4. Improvements concerning trade

¹ This theory was pioneered by Mundell, but work in this areas has been done earlier by Lerner.

² The European Commission looked at the loss of value within the EU by starting with 100 worth of any EU currency, exchanging it successively for all other EU currencies and found that at the end you are left with 50 worth of the currency you started with.

- ³ Note that the border effect is a substantial obstacle for international trade.
- ⁴ This is a long and painful process though as the Eurocrisis has shown.
- ⁵ Again exchange rate fluctuations might incur losses for investors in the long term, thereby reducing FDI.

- Payments will be easier and more secure in an area that shares a currency, which will again lead to increases in competition
- A common currency can also help reduce non-tariff barriers, such as reducing the monopoly power of certain firms in particular regions

5. Quality of monetary policy

- Improvements in the quality of monetary policy of course depends on the quality of the central bank
- The idea is that regions which has lower quality levels will be leveled up to a higher level with a central bank doing a better job in implementing policy
- It does involve a certain loss of national monetary policy autonomy though⁶

Costs of a Common Currency Area

Although eliminating national currencies in favour for a common currency has some benefits, there are also some disadvantages associated with having a common currency area. These costs mainly stem from cross-regional differences on a number of different issues. The main concern economically speaking is the manner in which a particular region reacts to a shock.⁷ Let's examine some of the limitations associated with a single currency area.

- Link between shocks and the exchange rate
 - A country experiencing a shock can't lower prices to increase competitiveness
 - And there are no alternatives either
 - As a result, it is likely that the economy will slow down for a prolonged time⁸
- Asymmetric shocks
 - Since countries have different characteristics, they will face different type of shocks9
 - In a currency union the setting of the exchange rate will affect both countries
 - When one country experiences a shock the central bank has to make a decision. But this decision will likely have diverging effects across countries. The common exchange rate cannot insulate all countries.
- Symmetric shocks with asymmetric effects

⁶ Again, the Eurocrisis has shown that this might pose serious problems. We will discuss this in further detail in a future lecture.

⁷ Shocks can include everything here, from macroeconomic shocks such as a global recession to more local phenomena such as an earthquake.

- ⁸ This happened to Germany at the turn of the century and the country was famously dubbed the sick man of Europe. Things look quite different now from a German as well as European perspective.
- ⁹ Think about the refugee influx in Italy and Greece which are closer to Africa and the Middle East.

- Countries can experience the same shock, but react differently
- This can be the result of the country's socio-economic structure such as labour market regulations, the relative importance of certain sectors, such as the financial industry, external debt etc.10

Criteria for a Common Currency Area

The term optimum in optimum currency area is maybe a bit misplaced as the theory does not actually discuss optimum conditions. Instead, the theory just brings together the costs and benefits of sharing a currency.11 It only provides a set of criteria which make a currency union acceptable. This criteria set consists of three economic and three political criteria¹² Let's examine the specific criteria.

1. Labour mobility

- In an OCA the people should be able to move easily between regions
- This is order to deal with shocks. When the factors of production, such as labour, can move freely within the OCA these shocks can be mitigated more easily. 13
- Importantly, various barrier to migration continue to exist such as cultural factors like a different language, or the skill of the migrant labourer14

2. Production diversification

- Having a similar production structure and widely diversified production and exports is beneficial for a OCA
- Recall that asymmetric shocks are a large problem for currency areas. The question is, how often do these shocks occur?
- If these shocks are rare, the costs will just be episodic, while the costs accrue very day
- Countries that will be affected most severely are those with a specialised economy¹⁵
- If the OCA countries all have a diversified economy, producing similar goods, this will reduce the probability of asymmetric shocks16

3. Openness

- When countries are open to trade and trade heavily with each other, they could form an OCA¹⁷
- In an OCA the distinction between domestic and foreign goods is lost

- 10 Think for instance about the fall out of Brexit for the other EU member states. Countries that have close economic ties to the U.K. like Ireland and Denmark are much more exposed compared to for instance Portugal and Slovenia.
- 11 Additionally, the theory doesn't even discuss which type of countries should for a currency union.
- 12 These criteria are based mainly on the initial work on this topic by Mundell and later by McKinnon and Kenen. Note that the criteria are largely endogenous as they might change over time.
- ¹³ Other factors of production such as large machinery are of course less easy to move across countries.
- 14 Migration has become a bit of a toxic issue in recent years for instance in context of the Brexit vote. One reason that the U.K. has attracted a disproportionally large amount of migrant from other EU states, besides sloppy legislature, is the fact that for instance for the average Pole English is an easier language to master than German or French. For the same reason you see that Spain has a large number of Romanian immigrants.
- 15 Think the reliance of Greece on a few key industries. Or the reliance of certain developing countries on the primary sector such as Nigeria or manufacturing such as Bangladesh.
- 16 Note that this is a very broad argument though. It is not at all clear what the level of diversification should be to reach a sort of immune state.
- ¹⁷ Arguably trade dependence also raises political questions for instance in the debate on Scottish and Catalan independence.

• Competition will equalise price os most goods when they are expressed in the same currency 18

4. Fiscal transfers

- When countries agree to compensate each other for adverse shocks, they form an OCA
- There is a moral hazard issue here
 - Certain countries might be expecting these transfers to happen
 - And conditional on this expectation they can be slacking
 - e.g. their economy might not be diversified enough, they are too dependent on imports, or have too rigid labour markets which make adjustments long and painful¹⁹

5. Homogeneous preferences

- Currency union member countries must reach consensus on the best way to deal with shocks
- Again this is a difficult issue in practice due to possible social and political differences across countries

6. Solidarity vs. nationalism

- Common monetary policy might give rise to conflicts of national interests
- In this case an OCA country needs to accept the costs in the name of a common destiny²⁰
- These costs can be accepted, as long as they are lower than the cumulative benefits
- This criteria also implies that there should be a move to a political union some time in the future

¹⁸ Changes in the exchange rate might affect competitiveness through exports; firms might want to focus on exports at certain price levels as it is more profitable.

¹⁹ This has been an important discourse in the eurocrisis where Northern eurozone countries blame Southern eurozone countries for having lacked in fiscal discipline for instance during book periods.

²⁰ This can be a very bitter pill to swallow.