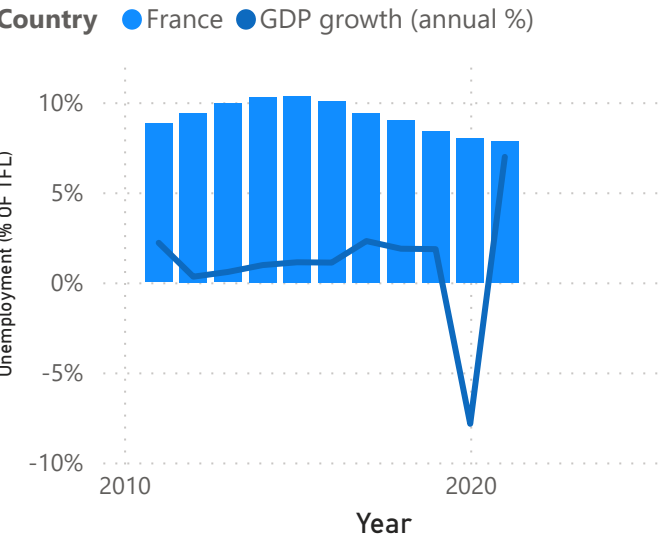


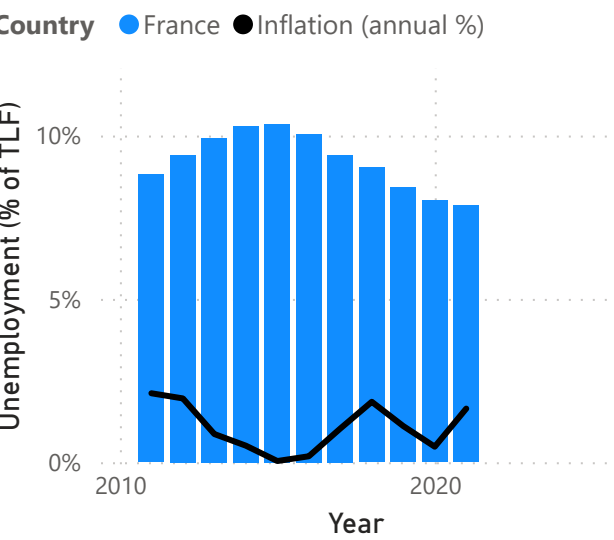
# Effect of GDP and Inflation on Unemployment Rate

(Unemployment based on Education Level)

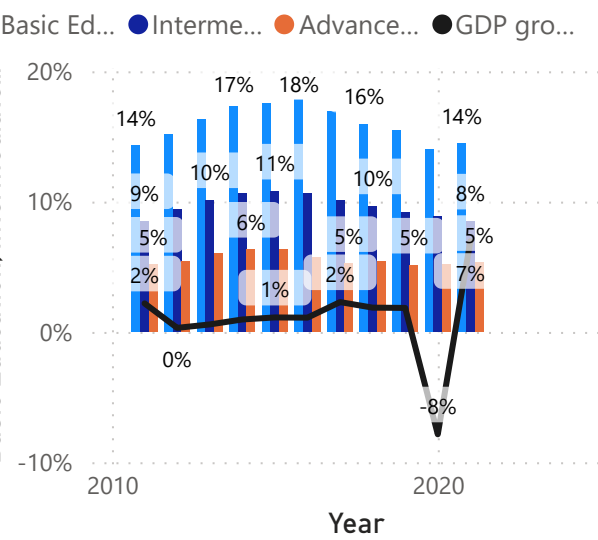
Yearly Change in GDP growth % and Unemployment % of TLF



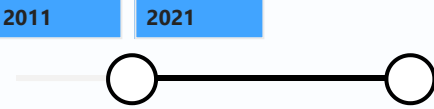
Yearly Change in Inflation % and Unemployment %



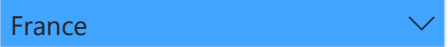
Change in GDP % and Unemployed Educational Level



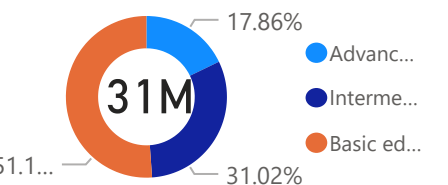
Year Filter



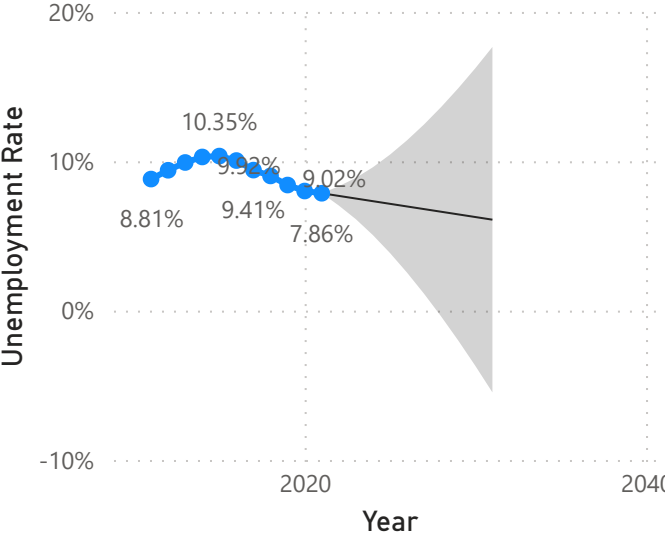
Country



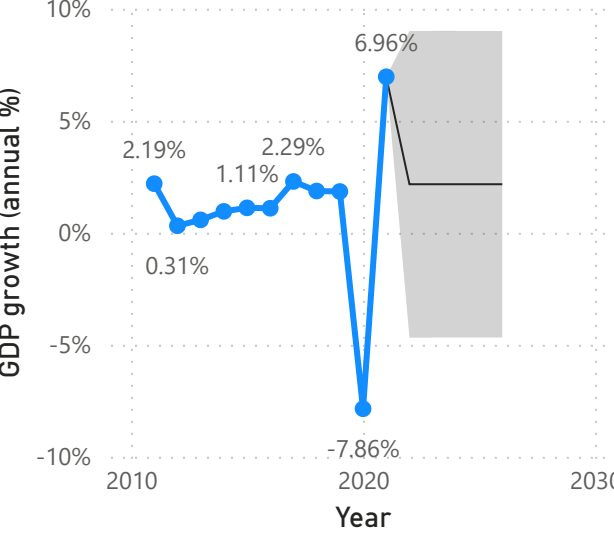
Unemployment based on Educational Level



Forecast for Unemployment (annual %)



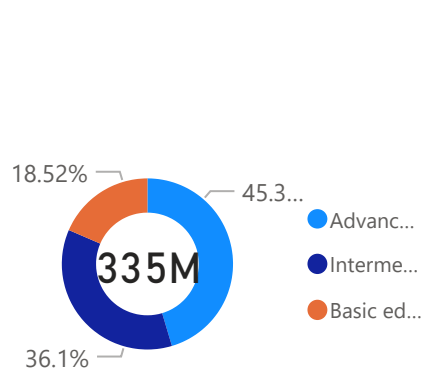
Forecast for GDP growth (annual %)



Change in Current and previous GDP growth

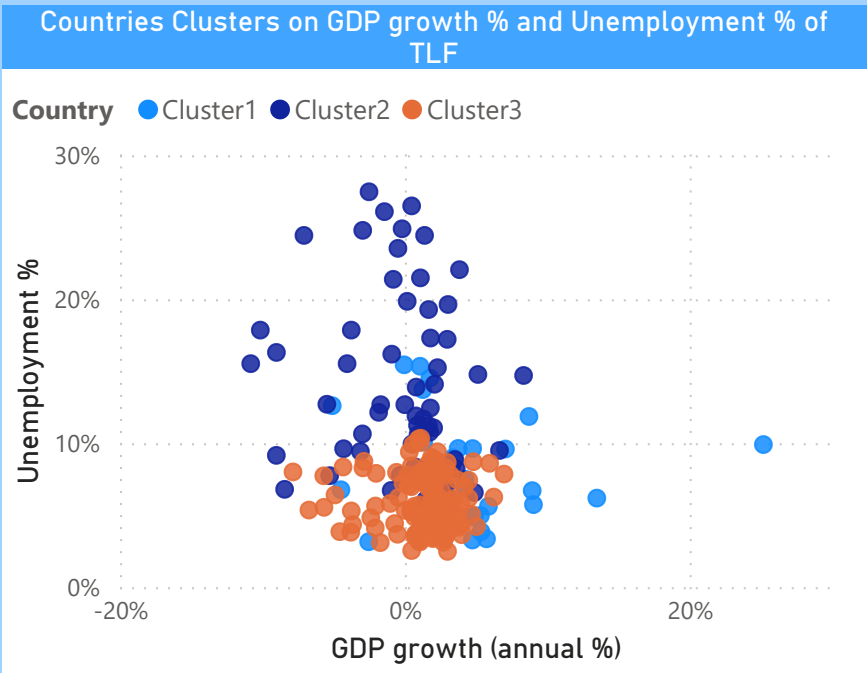
Country	Year	GDP Growth	Unemployment
France	2011	2.19%	8.81%
France	2012	0.31%	9.40%
France	2013	0.58%	9.92%
France	2014	0.96%	10.29%
France	2015	1.11%	10.35%
France	2016	1.10%	10.05%
France	2017	2.29%	9.41%
France	2018	1.87%	9.02%
France	2019	1.84%	8.41%
France	2020	-7.86%	8.01%
France	2021	6.96%	7.86%

Labour Force based on Educational Level

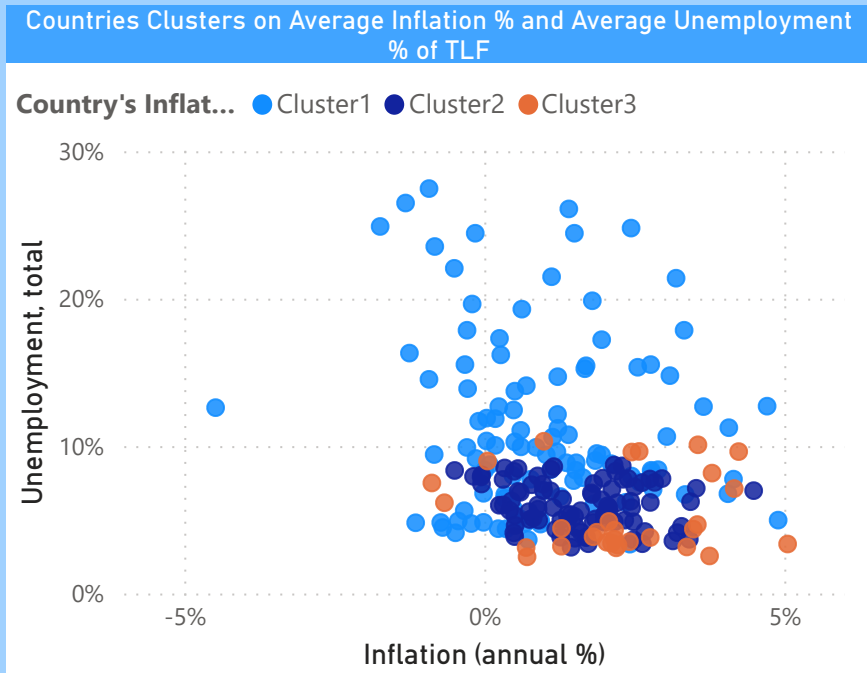


# Effect of GDP and Inflation on Unemployment Rate

(Unemployment based on Education Level)



Country	Country_ID	Country's GDP (clusters)	Country's Inflation (% of TLF)
Norway	NOR106	Cluster3	Cluster3
Norway	NOR107	Cluster3	Cluster3
Norway	NOR108	Cluster3	Cluster3
Norway	NOR109	Cluster3	Cluster3
Norway	NOR110	Cluster3	Cluster3
Norway	NOR111	Cluster3	Cluster3
Norway	NOR112	Cluster3	Cluster3
Norway	NOR113	Cluster3	Cluster3
Norway	NOR114	Cluster3	Cluster3
Norway	NOR115	Cluster3	Cluster3
Norway	NOR116	Cluster3	Cluster3
Norway	NOR117	Cluster3	Cluster3
Norway	NOR118	Cluster3	Cluster3
Norway	NOR119	Cluster3	Cluster3



Country (clusters)	Count of Country
Cluster1	30
Cluster2	60
Cluster3	135
<b>Total</b>	<b>225</b>

Size of GDP growth and clusters by Country
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Country (clusters)	Count of Country
Cluster1	30
Cluster2	60
Cluster3	135
<b>Total</b>	<b>225</b>

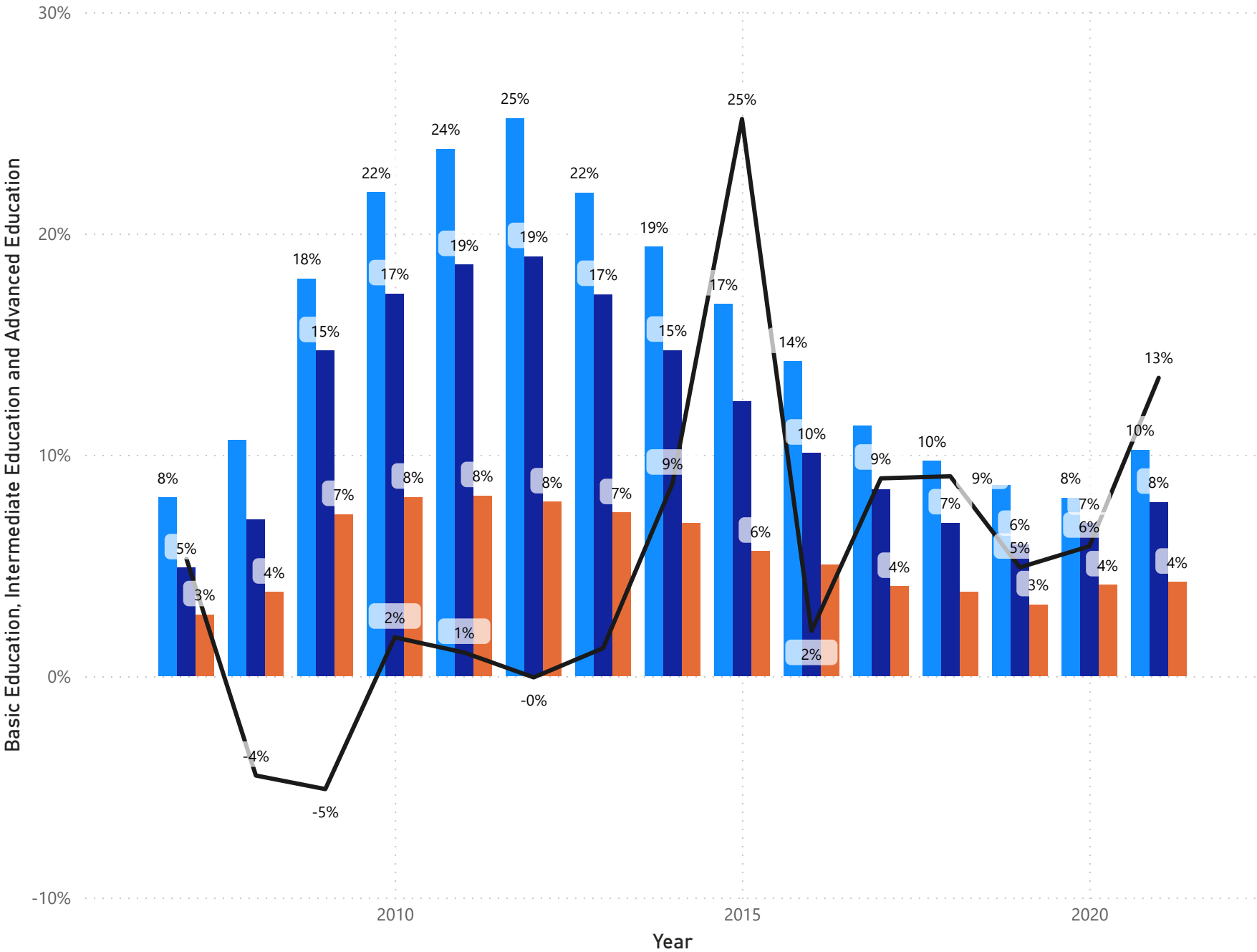
**Outliners**

The outliners are majorly in cluster 1 and it comprises of two countries: Ireland and Poland. They are in this group due to the unusual values in their GDP and unemployment rates.

Between 2014 and 2015, Ireland had a very usually high GDP growth rate. This raised questions if the GDP calculation was correctly collected or done. The reason for this was from low corporation tax rates, relocation of large multinational corporations into Ireland and significant increase in intellectual property.

Change in GDP % and Unemployed Educational Level

● Basic Education ● Intermediate Education ● Advanced Education ● GDP growth (annual %)



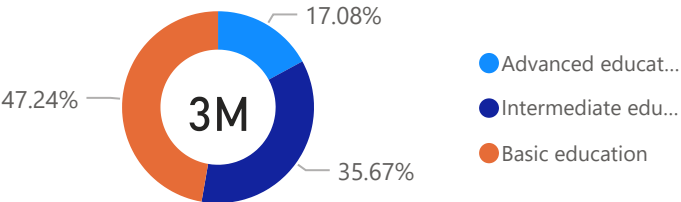
Country

Ireland

The Impact on Educational Category Affected by Change in GDP and Unemployment

The change in GDP have more impact on unemployed rate of people in a country with certain educational category than others. Okun's Law has been widely used as a benchmark for relationship between the change in GDP and unemployment. In the line and cluster column chart in this story, the overall change in GDP also has an impact on the change in unemployment categories than the others for example change in 2007 - 2008 Demark's GDP increased the unemployment rate. It also shows that impact was felt more by individual with basic education unlike the other categories. Individuals with advance education saw a decrease in unemployment rate within this same period.

Unemployment based on Educational Level



Change in Current and Previous Unemployed Rate

Ireland  
6.19%  
Unemployment  
2021  
Year  
Ireland  
5.62%  
Unemployment  
2020  
Year

Change in Current and previous GDP growth

Ireland  
13.48%  
GDP Growth  
2021  
Year  
Ireland  
5.87%  
GDP Growth  
2020  
Year

Country

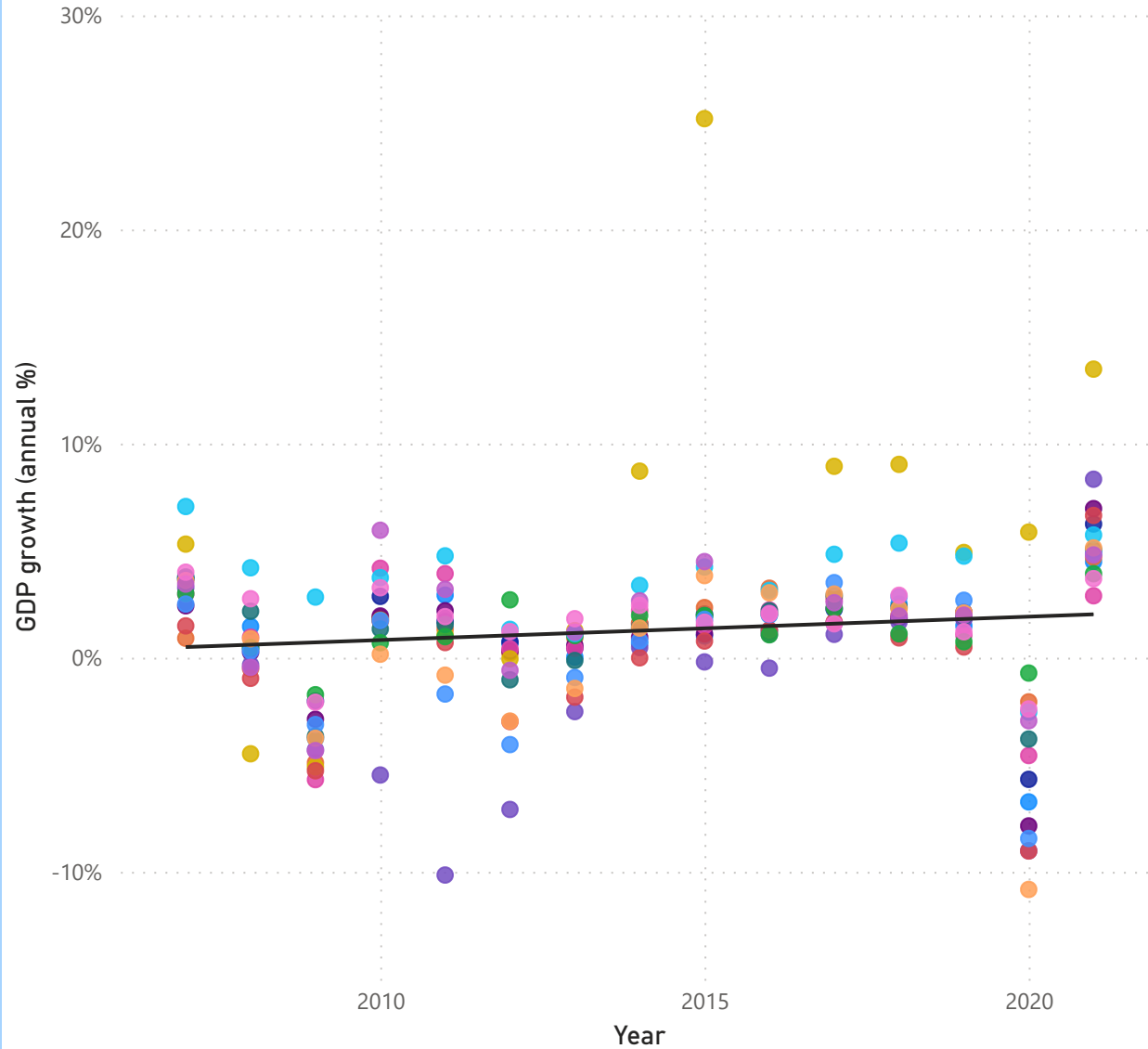


All



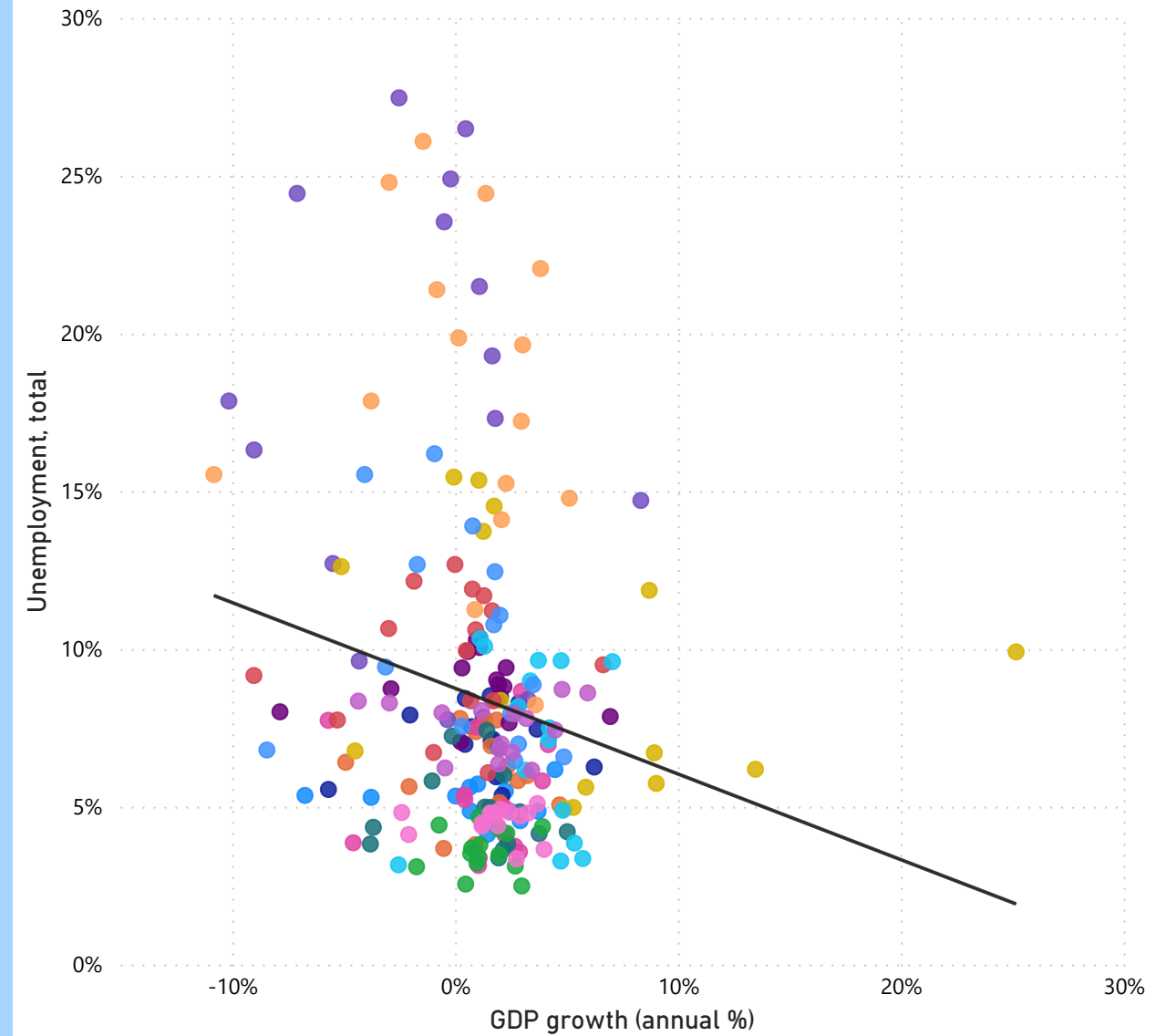
### Country, Year and GDP growth (annual %)

**Country** Austria Belgium Denmark France Germany Greece Ireland Italy



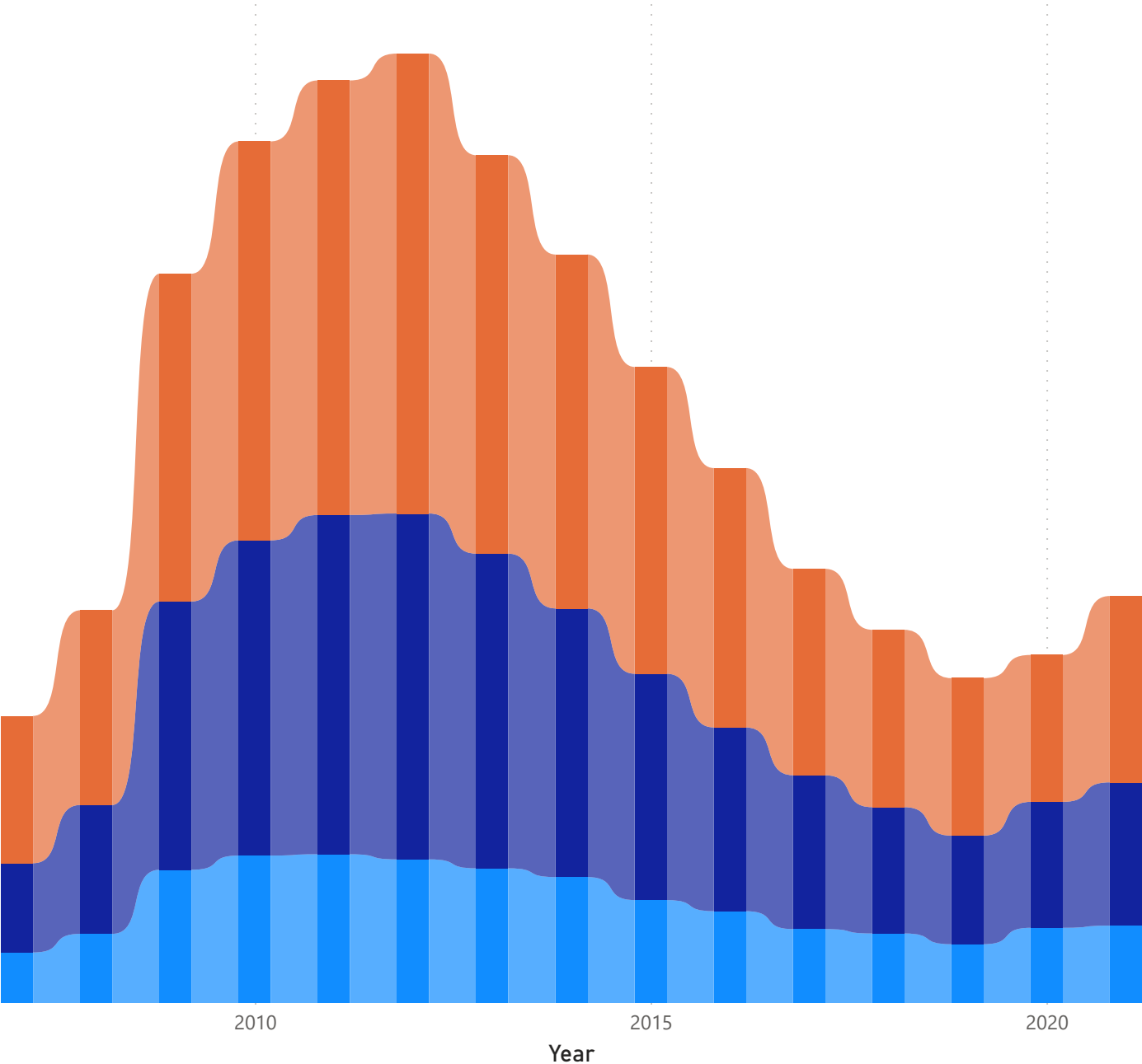
### Country, GDP growth (annual %) and Unemployment, total

**Country** Austria Belgium Denmark France Germany Greece Ireland Italy



# Educational Level of Unemployed Population

● Unemployed Advanced education ● Unemployed Intermediate education ● Unemployed Basic education



Country

Ireland

## Change in Current and Previous Unemployment

Country	Basic education	INTM education	Adv education
Ireland			
2007	8.07%	4.89%	2.77%
2008	10.67%	7.06%	3.79%
2009	17.96%	14.70%	7.30%
2010	21.86%	17.27%	8.08%
2011	23.81%	18.59%	8.15%
2012	25.20%	18.95%	7.87%
2013	21.83%	17.24%	7.38%
2014	19.39%	14.72%	6.90%
2015	16.81%	12.40%	5.64%
2016	14.21%	10.07%	5.03%
2017	11.31%	8.43%	4.05%
2018	9.72%	6.92%	3.81%
2019	8.63%	5.95%	3.22%
2020	8.05%	6.90%	4.12%
2021	10.21%	7.85%	4.24%