

# Social Impact of the War in Ukraine

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Using data on HICP per COICOP and quintile, we calculate for EU member states the impact on income of households of price evolution since the invasion of Ukraine by Russia. Most of the loss in income is due to energy price increases. In some countries, food prices are also an important factor. Code and data used in the note are available at <http://github.com/ofce/SIWU>. Updated with HICP release 17/06/2022.

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## 1 Social Impact of War in Ukraine brief

The invasion of Ukraine by Russia on February 24, 2022 opens a new world that calls for great cohesion in Europe. The response operates over multiple dimensions, and we propose to analyse the economic and social consequences of the war in Ukraine. To that end, we shall focus on the evolution of Europeans' purchasing power in the short run.

### Main channels

The main channel that we identify, concerning the social impact of the war in Ukraine, is the rise in the prices of consumer goods or services linked to actual or anticipated interruptions in the delivery of certain products imported from Russia or Ukraine. These products are mainly crude oil, gas, certain cereals or oil seeds, nitrogen fertilizers and other products used in industry. There are generally substitutes (of origin or nature) for these products, but the rigidity of supply chains and/or production capacities have led to a rise in prices since (and before) the war started. The partial exclusion of Russia from the Western financial system and the prospect of an embargo extending to gas supplies amplifies the price movements. Evidently, an embargo would amplify it further, with large impacts on prices, and probably also volumes (via quotas).

These price hikes are cascaded down to end consumers in the European Union. The price of gasoline at the pump reacts quickly to changes in the price of oil. For other goods, the contracts (between the final consumer and his distributor, between the distributor and the supplier) are complex and can introduce inertia or an absence of transmission. Other prices can increase in cascade such as electricity through indexation or price formation as

for the single market for gas or electricity. However, subsidies or price regulations can prevent the price hikes cascades.

Due to lack of data or clear estimation of mechanisms, we don't take in account 3 important channels.

- The first one is the response of government to compensate price increases when not directly acting on prices. Exceptional checks, increases in allowances or income are not accounted for. Data provision on this matter by Eurostat in a standardised format would be very useful.
- We don't take in account expected increase in future prices due to known indexation mechanisms. For instance, in some countries, rents are reevaluated on an index which is calculated using prices of certain goods or services.
- We don't take in account increases in wages or other components of income that could increase in the future due to price increase. Some of those indexation are explicit in private contracts or mandatory through general law, depending on the country and the source of income. Some increases are going to occur due to non explicit market mechanism and negotiations between economic agents. Here also, there is a clear lack of standardized information about country and source of income heterogeneity. Years of low inflation may be an explanation for this poor documentation of essential short term mechanism, but the surge of prices increases points the urgent need for a comprehensive collection of this information, in order to forecast future evolution of purchasing power and redistributive effects caused by increases of prices, being a general increase in price or located on a few products.

## Methodology

Our methodology is as follows:

1. We first identify the prices that have experienced a significant increase between several dates, mainly between February and April, 2022, which can then be attributed to the invasion of Ukraine. We use Eurostat's HICP at the finest possible level of disaggregation according to the COICOP nomenclature to distinguish price increases in (notably) energy, food, housing and transport (next update 17 June 2022),
2. We then use Eurostat's Household Budget Surveys (HBS 2015) to identify the structure of consumption by income quintile (using hbs\_str\_t223 database).
3. We then estimate the impact of price hikes in euros and in % of income by income quintile for each of the member states of the Union and per product identified using HICP from Eurostat, from which seasonal patterns are removed<sup>1</sup> (allowing for monthly analysis).
4. We offer an analysis and visualization of the information. Updated and complementary data are accessible at <https://ofce.shinyapps.io/siwu/>.

## 2 Context

The most important tensions concerning price hikes in Europe today come from the gas market (see Figure 1). Gas is one of the main sources of energy in Europe (21.5% of EU's primary energy consumption ; 32.1% for households) and Russia is the main supplier. Furthermore, Gas is relatively cheap: the average final household price for kWh is 6.5 cents against 21.6 cents per kWh from electricity. The EU imports 80% of its total gas needs, around half of it (43%) from Russia. Other suppliers include Norway (24%), Algeria (13%) and the US (7%). On March 8th, the Commission published a plan (REPowerEU) to reach complete independence from Russian fossil fuel "well before the end of the decade". However, in the short term, supplier substitution is hard as most of these imports come through pipelines and infrastructures for Liquefied natural gas (LNG) is insufficient. As for now, Russia has continued to supply European countries (more or less, the recent weeks have seen some developments there) under the terms of long-term contracts signed with national energy companies. It has however decreased its supplies in the spot market. Also, the fear of an embargo has had a huge impact on gas prices in Europe. Dutch TTF Gas Futures trade since April 2022 at around 100 euros per megawatt hour, against 20 euros at the same time in 2021. This affects directly wholesale electricity prices as gas is a major contributor to EU electricity production. Consumers across the European Union have different exposures to energy price increases, depending on nationality, income, mode of transport and domestic heating. Households represent a quarter (26%) of final

<sup>1</sup>We use a loess smoothing algorithm giving results close to X11/X13 procedures from the Census Bureau.

energy consumption. National exposures of households to energy prices differ greatly. If we look at energy consumption in housing by households, at the EU level, space heating represents according to Eurostat (2019) 63% of consumption; and 32% of energy consumption is provided by gas.

However, gas is not used in small islands like Cyprus and Malta (0%); and marginal in Sweden (0,3%) and Finland (0,5%), who use mostly derived heat and electricity (see Figure 2). On the other hand, gas represents the majority of energy in housing in the Netherlands (69,3%) and Italy (51,8%). Also, the need of energy might differ between nations, especially for heating purposes due to climate and thermal efficiency of housings: households in Malta, Portugal, Spain and Cyprus use far less energy than in Luxembourg, Austria and Denmark. Likewise, passenger mobility differs between Italy, Norway, Finland, Germany, France (above 13 000 km per capita per year) on one hand, and Romania and Slovakia (around 7 500 km/c/y)<sup>2</sup>. Moreover, only 30% of travel distance in Romania is by car as driver against 63% in Italy. Some, but not all, of these differences can be attributed to income differences.

Countries, gas and electricity companies and consumers are affected differently in the European Union through volumes, but also through prices. Despite price convergence due to the evolution towards liberalisation and a single European energy market, national utilities and consumers face different prices depending on the contracts signed with suppliers.

Most European countries have gone from oil-indexation to gas-indexation in the long-term contracts signed with gas suppliers. In the European Union, oil-indexation represented nearly 80% of contracts in 2005, and only around 20% in 2019, replaced by gas-indexation. This trend started, and is most pregnant in Northwest Europe (Belgium, Denmark, France, Germany, Ireland, Luxembourg, Netherlands). The change is less dramatic in Mediterranean (Greece, Italy, Portugal, Spain). Gas-indexed contracts have not really increased in South-east Europe (Bulgaria, Croatia, Romania) or Scandinavia and Baltics (Finland, Sweden, Lithuania, Latvia, Estonia). This is important because, in this crisis, oil has not increased as much as gas (Brent is up 52% in 1-year, 35% year-to-date). Also, consumers might be more or less protected by the contracts they signed with the gas and electricity utilities. There is a trend towards more variable-price contracts, especially in countries like Luxembourg, Slovenia, Ireland, Spain, Belgium, Czech Republic and the Netherlands: in these countries, more than 50% of consumers have variable-pricing gas contracts. In Belgium, suppliers have the right to index their variable gas and electricity prices monthly and use the indexing parameters of their choice (of course, they might wish to link it directly to their wholesale price so that they do not take any market risk). The government justified the decision in the objective to “bring the bill closer to the market reality”. However, if demand is relatively inelastic in the short-term, this price-liberalisation increases volatility and risk for countries that produce gas as well as, and more importantly in this case, final consumers.

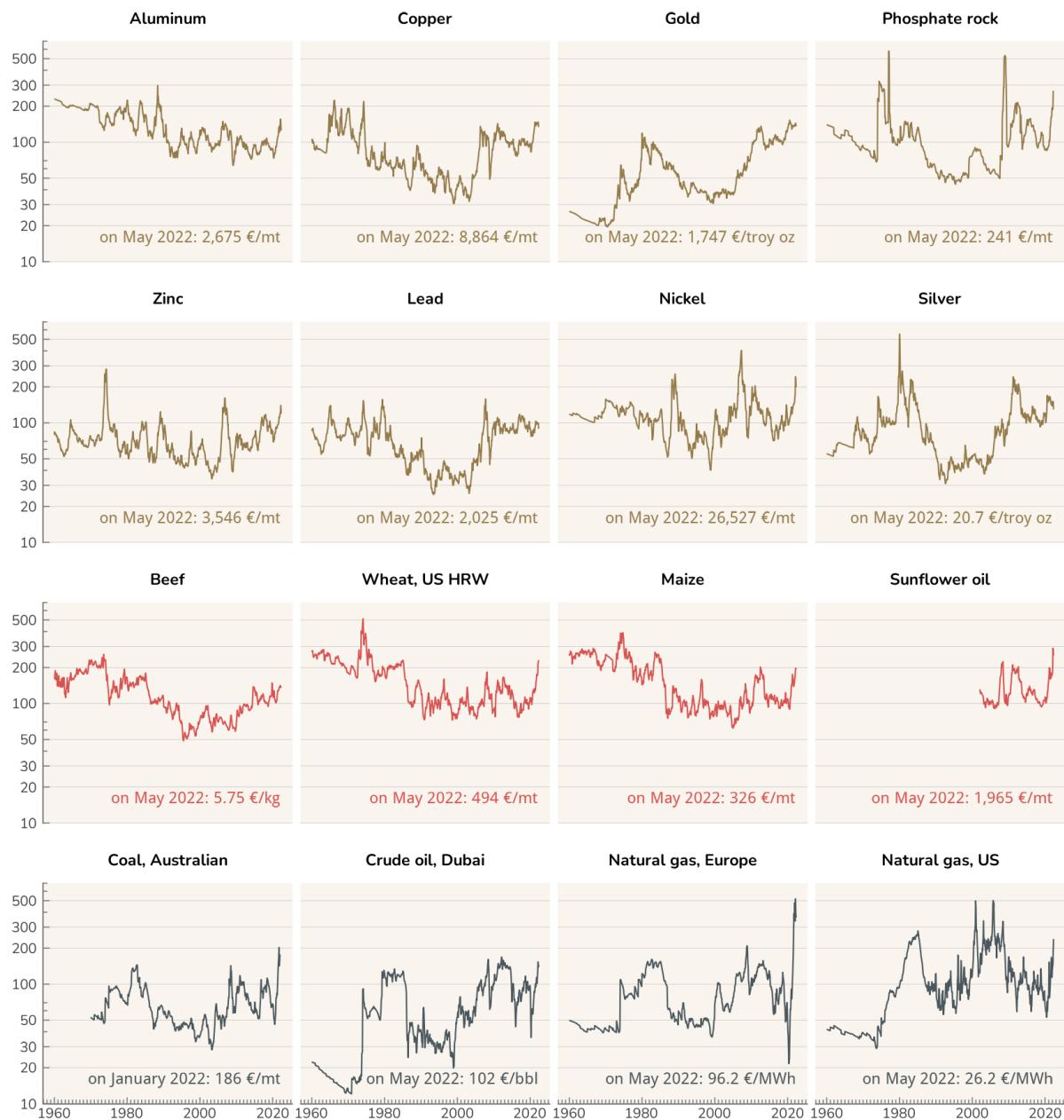
Consequently, the impact on consumers, as analysed in this study, does not presume of the impact on the economy as a whole: the cost of the price increase can also be borne by the state (through subsidies), or by state or private utilities tied by regulations (in France, EDF bore part of the total cost of electricity price increases). Impact on households might differ according to the preferred policy response: freeze in prices compensated by corporate subsidies or direct transfers to vulnerable households according to income and/or energy consumption. In both cases, computability will be different: in the first case, for the same amount of additional government deficit, there will be no or less change in prices and income, whereas in the second case both prices and household income will soar.

We can distinguish several kind of policies that have a different impact on what we measure in this report:

- What most economists would suggest in normal times is to not touch the ‘price-signal’ and compensate the poorest households with energy cheques. This would not impact the inflation as measured in this report but the decrease in living standard is partially compensated, borne by the state, depending on generosity of the cheque.
- One can also stress that the impact on welfare of energy price increases depends both on income and energy needs. Governments can therefore compensate consumers via cheques that also depend both on income and energy consumption in the last months. This does not decrease the price of energy (which would increase demand) but compensate according to volumes consumed. With such a strategy, inflation could remain high, but compensated by the State according to historical consumption: there would probably less winners and losers (i.e. variations in living standard) than with a compensation based solely on income.
- Alternatively, governments can act to deflate prices via (temporary) tax cuts or direct subsidies, and/or price caps, for all or for the most vulnerable in income and/or energy needs. Price subsidies for all is the most expensive instrument for the state budget, and it increases demand (relatively to other policies) for energy.

<sup>2</sup>Odyssee-Mure: <https://www.odyssee-mure.eu/publications/efficiency-by-sector/transport/passenger-mobility-per-capita.html>

Figure 1: Real price of a selection of commodities



Last data point for May 2022, real prices using France price and exchange rate indexes, 2018=100, log 10 scale  
 Sources : World Bank Commodity Markets ([www.worldbank.org/en/research/commodity-markets](http://www.worldbank.org/en/research/commodity-markets))  
 Eurostat HICP monthly since 1990, INSEE National accounts from 1960 to 1990 for price index (France)  
 OECD EO110 for exchange rate FRA/USD, EUR/USD

It is not usually recommended by economists who think in terms of cost/benefits analysis. However, if everyone is preserved from price increases in the short term, it prevents the crisis from becoming a political issue: the true cost and transfers are hidden, or at least their discussion is temporarily transferred to, it is hoped, after the crisis (when the true aggregate cost is supposedly known and political discussion does not depend on anticipations).

Figure 2: Energy final consumption per capita by vector

Energy final consumption estimation by vector per capita  
in megaWatt-hour per person

	Gas			Oil <sup>b</sup>	Nuclear <sup>c</sup>	Coal <sup>d</sup>	Renewables <sup>e</sup>	Others <sup>f</sup>	Total <sup>g</sup>
	total gas <sup>a</sup>	of which electricity&heat	of which households						
Netherlands	20.3	7.9	7.3	15.6	0.2	1.2	4.4	0.5	42.3
Belgium	14.9	4.5	5.2	17.8	2.8	0.6	5.0	0.6	41.7
Luxembourg	11.6	1.1	6.2	34.0	0.0	0.7	7.3	0.8	54.4
Italy	11.2	4.8	4.5	8.2	0.0	0.7	5.7	0.2	26.1
Germany	10.9	3.0	4.5	12.1	0.8	4.8	6.5	0.6	35.6
Ireland	10.5	6.0	2.3	13.5	0.0	1.0	4.2	1.3	30.6
Hungary	10.3	2.8	5.1	8.3	1.6	1.3	3.5	0.3	25.3
Austria	9.9	3.3	2.3	13.6	0.0	0.6	13.7	0.8	38.6
Slovakia	8.8	2.2	3.2	7.3	2.9	2.1	4.6	0.5	26.2
Czechia	8.6	2.6	3.3	9.2	2.7	11.1	5.6	0.4	37.6
Lithuania	7.8	1.6	1.1	10.0	0.0	0.6	6.9	0.3	25.6
Malta	7.2	7.2	0.0	6.6	0.0	0.0	1.3	0.0	15.0
Croatia	6.5	2.2	2.0	7.5	0.0	1.0	6.3	0.1	21.4
Spain	6.2	2.7	1.3	9.8	1.2	0.4	4.7	0.1	22.5
France	6.0	1.2	2.8	10.3	5.3	0.3	4.9	0.3	27.1
Portugal	5.6	3.6	0.6	8.6	0.0	0.6	7.2	0.2	22.2
Romania	5.5	1.6	2.2	5.4	0.6	2.0	3.7	0.2	17.4
Latvia	5.4	3.5	1.4	8.5	0.0	0.1	11.0	0.3	25.4
Estonia	5.4	3.3	1.2	14.5	0.0	0.1	11.5	0.5	32.0
Greece	5.1	3.5	0.6	9.7	0.0	2.0	3.6	0.0	20.4
Poland	4.8	1.2	1.5	8.7	0.0	11.4	4.0	0.3	29.2
Finland	4.2	2.4	0.1	15.1	3.9	1.7	25.2	2.8	52.8
Slovenia	4.1	0.8	0.7	11.1	2.8	5.6	6.5	0.3	30.3
Denmark	4.0	1.0	1.7	10.0	0.0	1.6	11.7	0.9	28.2
Bulgaria	3.6	1.4	0.3	6.3	2.4	6.5	4.3	0.1	23.3
Sweden	1.4	0.3	0.1	8.9	4.5	0.4	25.9	1.2	42.2
Cyprus	0.0	0.0	0.0	24.1	0.0	0.2	3.6	0.5	28.4

<sup>a</sup> Gases (natural and produced, except biogases) input for electricity production, housing, industrial processes, commercial or public building (G3000&C0350-0370)<sup>b</sup> Oil and oil shale and oil sands (O4000XBIO&S2000)<sup>c</sup> Electricity and heat generation from nuclear production output (yield=33%) (N900H)<sup>d</sup> Solid fossil fuels (C0000X0350-0370)<sup>e</sup> Renewables and biofuels (RA000)<sup>f</sup> Heat, Nuclear heat not used for electricity, peat, and non renewable waste<sup>g</sup> Total final consumptionSources: Eurostat nrg\_bal\_s and demo\_gind, code at [github.com/OFCE/SIWU](https://github.com/OFCE/SIWU)

This later element has some consequences for monetary policy. By cut price increase before they reach consumer price, ones prevent indexation mechanism (pension, minimum wage, social compensation) and thus prevents partly so called second turn effects. This then simplify the conduct of the monetary policy as response to external price shocks can't be countered by a restrictive monetary policy. Thus by preventing partially pass through to the economy, at a high fiscal cost, monetary policy can be free of inflation risk and address the slowdown of the economy induced by the transfer to commodities producers.

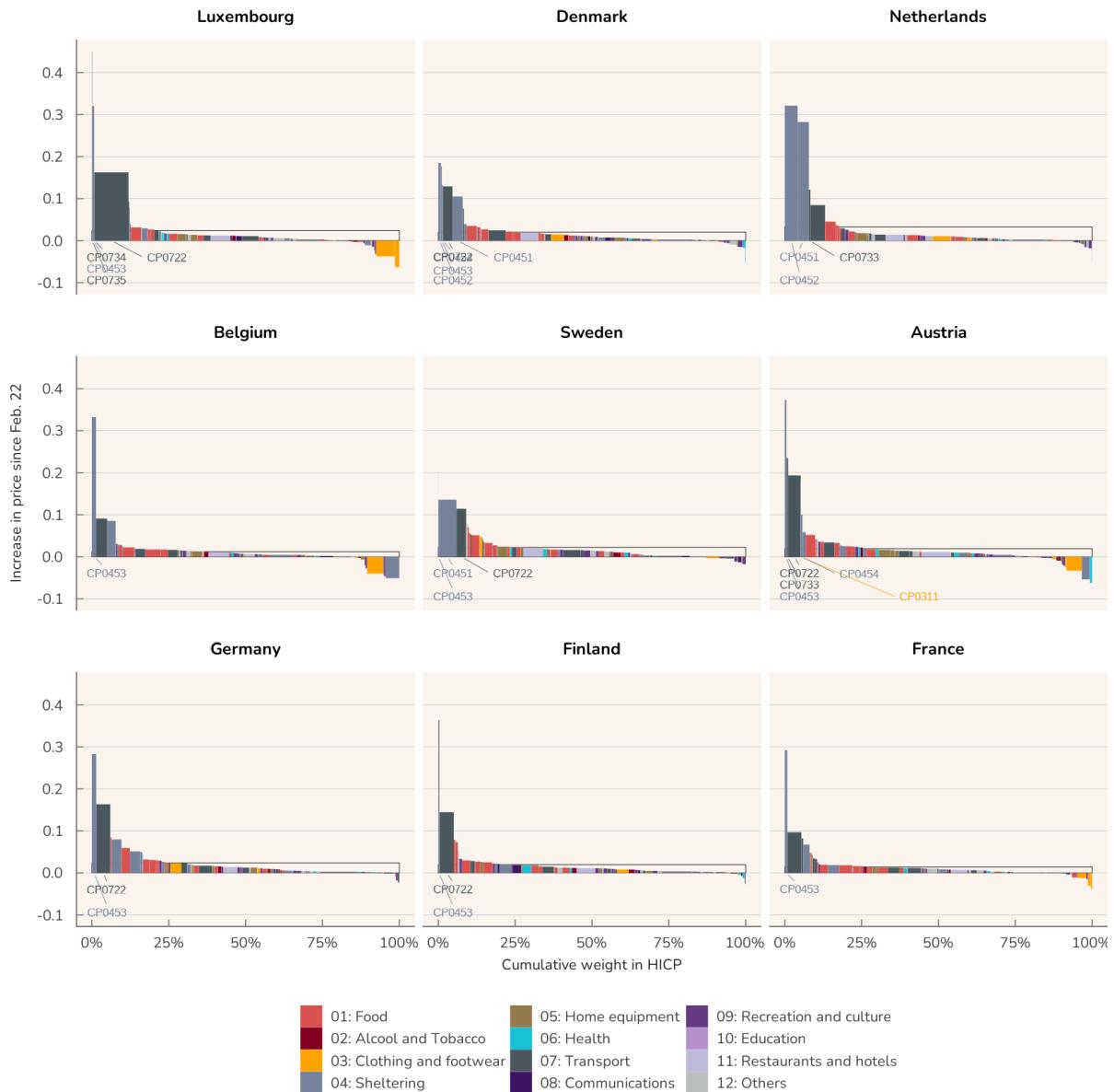
### 3 Results: general discussion

The 3 following graphs (Figure 3, Figure 4, Figure 5) are displaying the most important increases in prices since the beginning of the war in Ukraine.

In most countries, the COICOP categories concerned by prices increases are transportation especially CP0722 which are “Fuels and lubricants for personal transport equipment”, and various categories of energy for housing (heating, hot water or appliances), in the categories CP0451 to CP0454 (Electricity, Gas, liquid fuel, solid fuel). In some countries, some food categories are displaying a sharp increase (especially oils and fat). Annex tables are summarizing the most important increases.

Figure 3: Price increase since War in Ukraine (1/3)

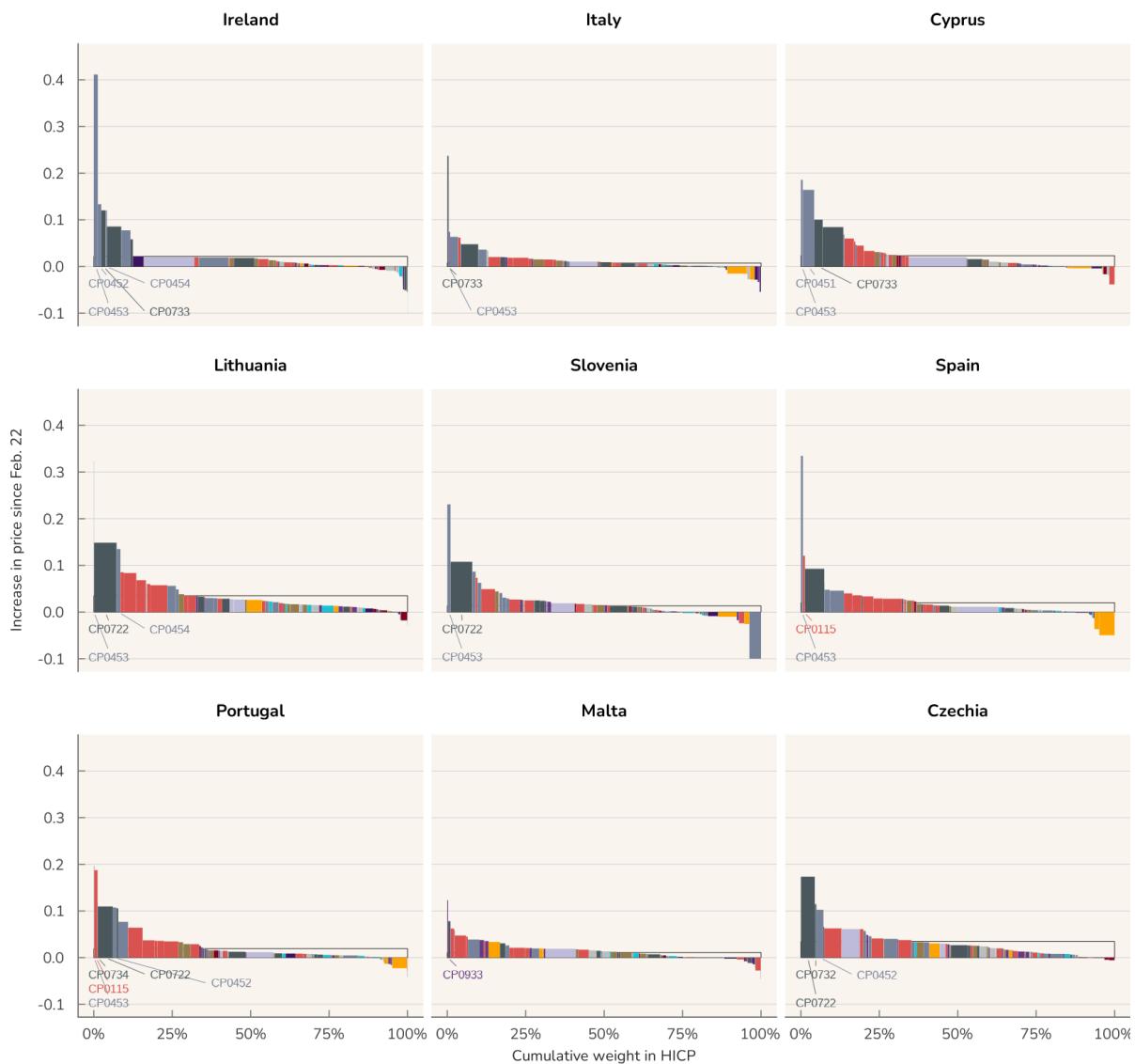
from February 2022 to May. 2022, subfig 1.



Reading note: each 3 digit COICOP is represented in decreasing inflation order  
 Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution  
 Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

Figure 4: Price increase since War in Ukraine (2/3)

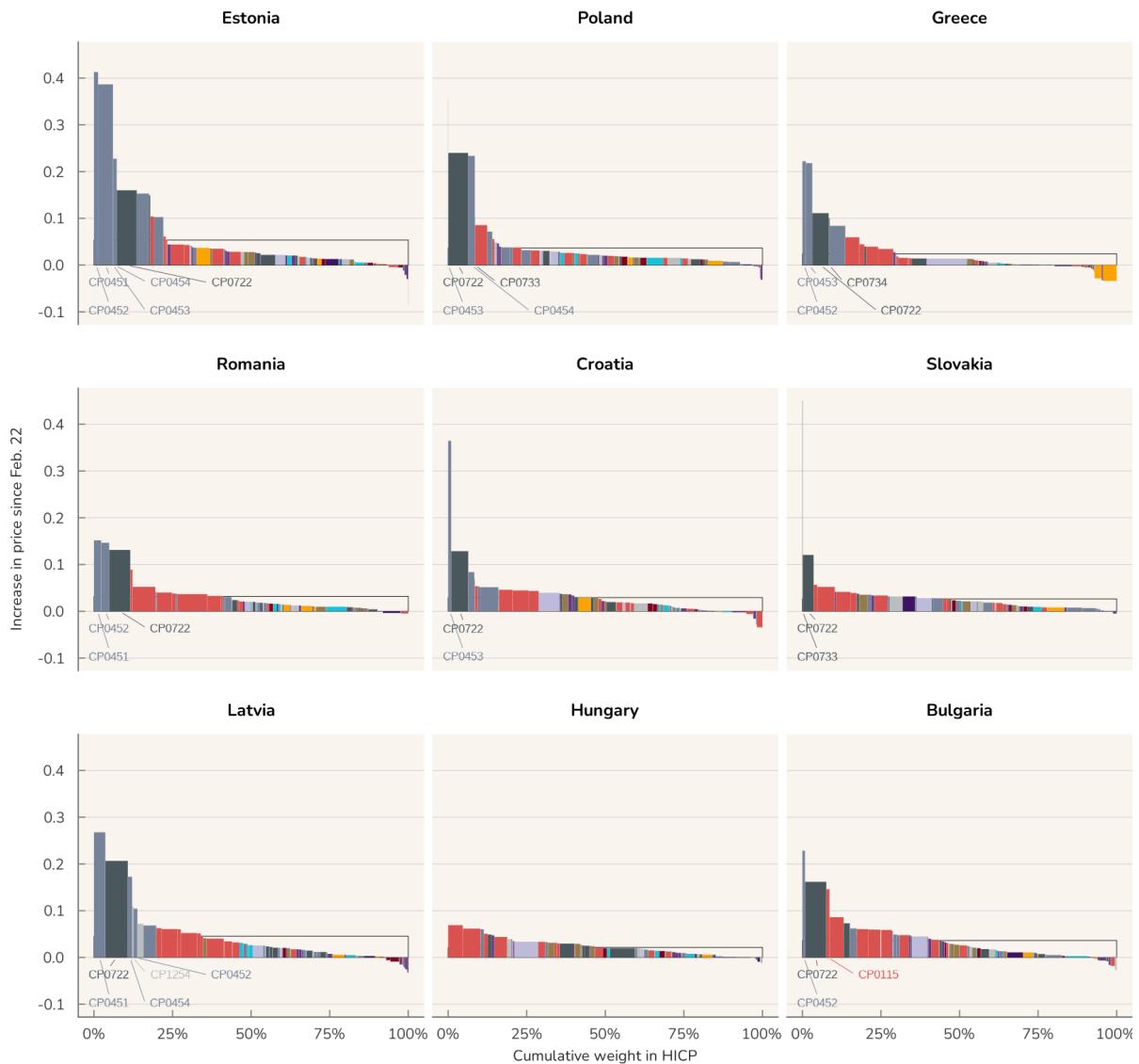
from February 2022 to May. 2022, subfig 2.



Reading note: each 3 digit COICOP is represented in decreasing inflation order  
 Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution  
 Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

Figure 5: Price increase since War in Ukraine (3/3)

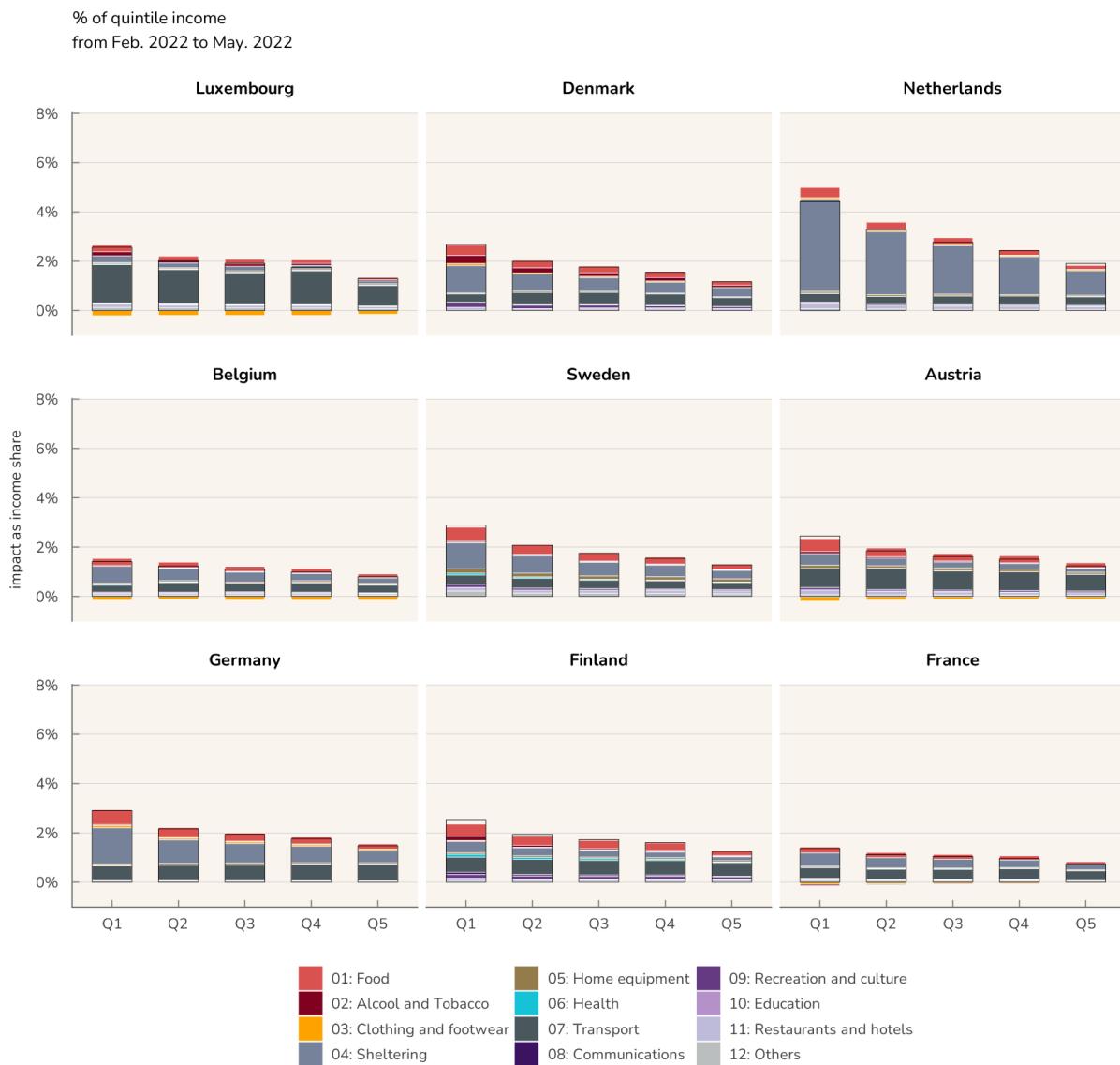
from February 2022 to May. 2022, subfig 3.



Reading note: each 3 digit COICOP is represented in decreasing inflation order  
 Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution  
 Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

The following 3 graphs (see Figure 6, Figure 7, Figure 8) are displaying the breakdown by quintile of the impact in purchasing power per countries.

Figure 6: Impact on income per quintile (1/3)



Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per socio (hbs\_str\_t211),  
income and expenditure per quintile (icw\_res\_02)

Figure 7: Impact on income per quintile (2/3)



Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per cociop (hbs\_str\_t211), income and expenditure per quintile (icw\_res\_02)

Figure 8: Impact on income per quintile (2/3)

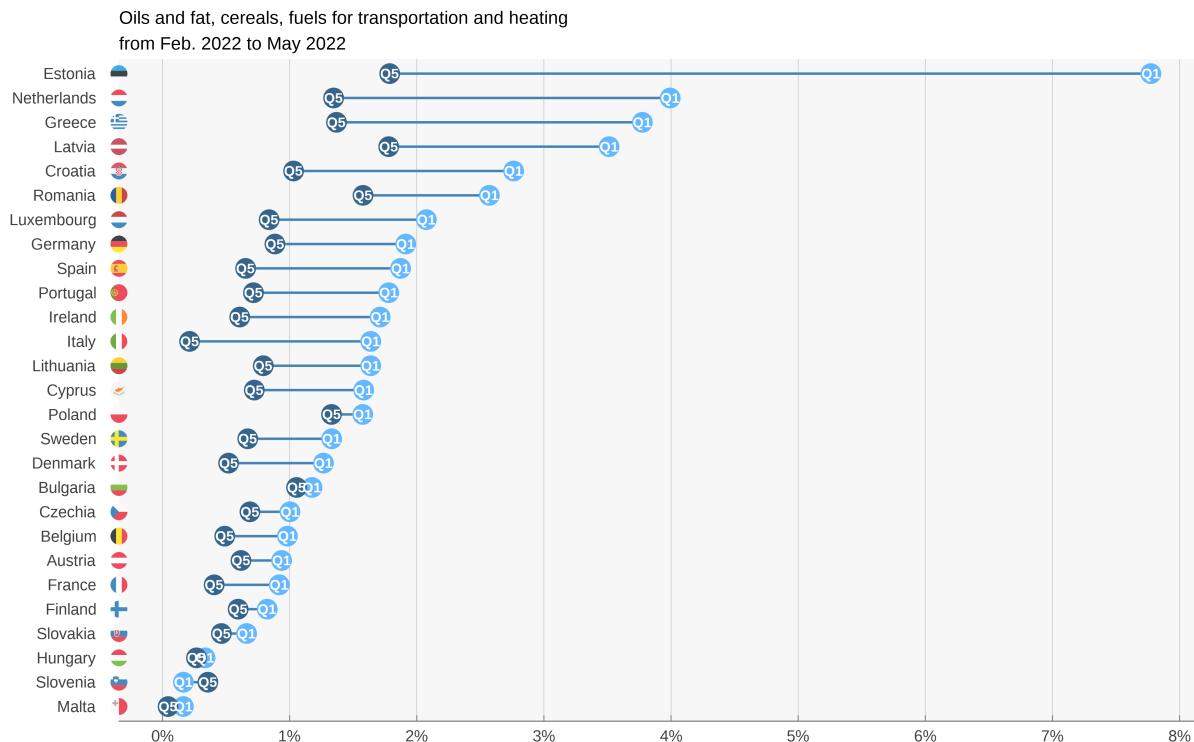


Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per cociop (hbs\_str\_t211), income and expenditure per quintile (icw\_res\_02)

Compared to other countries, and due to governmental policies, households in France are relatively preserved by price increases. This is also the case in Sweden, Cyprus and Malta, three countries that are not dependent on gas for household heating. In Sweden, use of gas or oil for heating is marginal since 2010 for domestic heating. Oil, which represented 50% of energy consumption in the early 1980s has been replaced by heat networks (that themselves rely only marginally on fossil fuel)<sup>3</sup> and electricity, also decarbonized. National differences in how household are impacted today are therefore partly the consequence of long-term policies (environmental and/or geopolitical).

On the contrary, households in the Netherlands and Belgium, who rely mostly on gas for heating, are most affected. In Slovenia, price hikes in housing are more than compensated by governmental measures (notably, an exemption that decreased electricity prices by 35% on average from February to April). It is also noticeable that households in the first income quintile tend to be more affected (before eventual governmental transfers), in percentage of income. This is not surprising: poorer households tend to consume more energy and food as a share of income. Poorer households, from the first quintile, are most hit in Greece, the Netherlands, Lithuania. This is due mostly to housing expenses in the Netherlands, but food also plays a role in Greece and Lithuania. The next Figure confirms this conclusion. We can clearly see that for all countries (except Slovenia), the impact on households from the first quintile (Q1) is greater than for the richest households (Q5). This is particularly true in Lithuania, the Netherlands and Greece. The difference between Q5 and Q1 is also greater in countries where households are most affected: the poorest households bear the most risk from energy and food price volatility.

Figure 9: Impact on quintile



Note: Impact on each quintile is as a share of income of the quintile for the selected products.

Impact is the sum of monthly impacts divided by the sum of monthly income over the considered months.

Slovenia has exempted from energy bill a part of the population in Jan and Feb 2022 (see companion text for details)

Source: Eurostat HICP and income per quintile

coicop CP0111, CP0115, CP0451, CP0452, CP0453, CP0454, CP0722

<sup>3</sup>According to Swedish Environmental Agency, total greenhouse gas emission from buildings (heating) decreased from 9.30 million tonnes of carbon dioxide equivalents in 1990 to 0.9 in 2018 [https://ec.europa.eu/energy/sites/ener/files/documents/se\\_2020\\_ltrs\\_official\\_translation.pdf](https://ec.europa.eu/energy/sites/ener/files/documents/se_2020_ltrs_official_translation.pdf)

What impact on poverty rates (according to Eurostat) ?

In the European Union, monetary poverty is defined as belonging to a household whose living standard (in euros or national currency) is below 60% of the median (national) living standard. The indicator is said to be relative: it depends on the relative position of a household in the entire living standard distribution. One advantage of this indicator is its simplicity: one only needs to know the disposable income (after tax and social transfers) of a representative sample of households (EU-SILC). This monetary indicator is not uncontroversial however, so that Eurostat cautiously names this indicator "at risk of poverty rate".

The analysis presented here could deepen the controversy around the monetary indicator. Since the indicator only looks at income, it does not take into account differential inflation for poorer and richer households. If poor and rich households have different consumption baskets (poorer households consume relatively more transportation, heating, and food), asymmetric inflation as we have seen following the Ukrainian invasion (which affected heating, transport and food disproportionately) will have different impact on the real living standard of poor and rich households, even if income levels are stable. This impact will not be shown in the indicator. Also, equivalent policies could have different impacts on the monetary poverty rate: a social tariff will generally not be reflected in the poverty rate, while a social cheque will lower the poverty rate. Therefore, there could be a paradoxical decrease in the at-risk-of-poverty rate in 2021/2022 if differential increases in prices are not reflected in the indicator, but social cheques are (since these are included in income).

This is a well-known limit of this indicator which only reflects income, and not needs. To respond to this limitation, Eurostat added a second indicator, using Material and Social Deprivation approach. In this latter approach, which is gaining traction, a person is in deprivation if he/she declares that he/she does not have sufficient financial resources to access a certain number of goods and services, considered necessary for decent living conditions in Europe (from 'being unable to keep one's home adequately warm', to 'afford an internet connection' or 'a car for personal use', and 'a meal with protein a day'). Persons who are incapable of covering expense to at least five of the thirteen items are considered deprived. Today, if you Google "poverty rate in the European Union", chances are that you will click on a study that uses a third indicator: "at risk of poverty and social exclusion", which is quietly becoming the main indicator of poverty in the European Union. Are poor according to this indicator, individuals who are poor according to either one of the two indicators (monetary or deprivation). This represents around 22% of the EU population (35% in Romania, 12% in Czechia). One notable advantage of this indicator is that it is likely to go up when prices increases, and the living standard of the poor decreases. This indicator also has an absolute component: if all incomes go down, deprivation goes up and poverty also goes up, which is in line with common sense and intuition (poverty usually has both an absolute and relative component in its common acceptation). There are other problems: deprivation can only be measured through surveys and is therefore not as predictable as income (it is easier for a forecaster to predict income than how people will answer a survey). Also, the way people answer surveys might differ across countries and time (for the same budget and prices): it is a subjective measure. Also, being able to afford a personal car might seem pertinent today but not in 20 years. This poses problems when the list of deprivation items needs to be updated.

## 4 Results: discussion by country

### Austria

In terms of overall impact of price hikes on living standard, Austria stands in the mid-tier amongst EU countries (15th at 1,3%). The main price increases borne by Austrian consumers concern liquid fuels and fuels. Policies include 900 million euros for energy tax cuts over 12 months, energy cheques for all and for the poorest (300 euros), and commuting subsidies.

### Belgium

Belgians are among the hardest hit in the European Union if we look at price increases since September 2021 (6,1%). Since February 2022, prices have increased a lot less. This is mostly due to Gas and Fuels: prices have increased early in Belgium, maybe due to the fact that a lot of consumers have variable-price contracts. At first, policy was targeted to the poorest (500, 000 households) through social energy tariffs and an energy

check. In February, a VAT reduction for electricity from 21% to 6% was announced from March to July (extended to September, as well as a check for every household. In March, a 200 euros cheque was announced for oil-heated households and taxes on diesel and petrol were reduced. It is worthy to note that, as the crisis extended policies went from targeted checks to decreased prices for all, which can explain why we see in our data price increases mostly in the end of 2021. Despite social energy tariffs, since February, poorer households (Q1) have seen a larger decrease in living standards due to price hikes (0,7%) than richer households (0,4%) although the absolute difference is not that large.

### **Bulgaria**

Bulgaria is one of the hardest hit countries in the European Union by price increases since September (6,7%) and February (1.9%). This is due to large price increases in fuels and oils. Food items (Cereal, Meat, Milk) have also gone up in prices, probably due to greater dependency to Ukraine. Also, being a poorer country than average in the EU, the weight of Food and beverages, Utilities and housing and Transportation is also higher ; the three broad categories represent almost half of the CPI basket. Within Bulgaria, the poorest households are hardest hit since February (2,3%) than the richest (1,1%). At first (October) policy response was directed to companies in order to cap electricity prices for businesses. In December, a new ruling coalition voted to freeze power and heating prices.

### **Cyprus**

Cyprus is in the low-tier for countries impacted by price increases. Its status as a an island insulates the country from a direct impact of natural gas inflation: as with Malta, the country does not supply households with gas. Price of electricity has gone up, even more than in other EU countries: reduction in VAT (from 19 to 9) only went into effect in May. Although, the country imports electricity from Turkey (for northern Cyprus households) and these prices have gone up even more than in the EU.

### **Czechia**

Czechia is in the mid-tier for countries impacted by price increases since February but in the top-tier since September. Electricity has gone up 17% since September. This is due to policy responses in December when the government (temporarily) exempted electricity and gas from VAT (from 21%) for households and energy-intensive industries. This exemption could be made permanent for renewable energies. In another concern, the government also want a permanent reduced VAT on energy (at 10%): this crisis might impact the long-term level of taxation of energy across a number of European countries.

### **Denmark**

Denmark is one of the least impacted countries since January (and September). If the price of gas has gone up, it represents a lower share of the CPI basket than in other countries. The same is true, to a less extent, of electricity, which has gone up mostly in 2021. The main policy is a heat-cheque for the most vulnerable households, mostly for households with gas-heaters (on a per-household basis, thus leaving incentives unchanged).

### **Estonia**

Estonia's consumers are the second hardest hit by price increases (representing 3,3% of income since September, 1,3% since February). Fuels and Heat energy prices have gone up more than 20% since September, and Electricity (17%) and the weight of these items are high in this northern European country (Talinn is at the same latitude than Stockholm and just 80km from Helsinki). The country put in place social electricity tariffs since September and reduced electricity prices for all since October. In January the government put in place a cap on electricity and gas prices for households.

## Finland

Despite being a close neighbor from Estonia, Finland is in the lower-tier in terms of price impact. Energy consumption is high but relies less on fossil fuels. As of 2008, the country has four nuclear reactors in two power plants, producing 60% of its electricity needs. Natural gas is not used for individual heating. Domestic heating relies primarily on electricity and district heating (which rely mostly on oil, peat and wood). In terms of policy, the government increased the maximum deduction for commuting expenses (density is low and mileages are high). The annual ceiling for increases to tariffs has been reduced from 15% to 8%.

## France

France is one of the lowest hit nations in Europe by price increases (and the lowest since September). For consumers, price increases for Electricity (5%) were far lower than neighbouring Spain (52%), Italy (55%) or Belgium (32%), mostly due to government imposed price regulations. To cover the loss, EDF increased its capital by 3 billion euros in March (for a total estimated cost of 8 billion). Also, Cheques have been emitted for the lower income half of the population. And in March, a 15 cents discount on petrol prices at the pump was decided by the government. It's probably not a coincidence that broad / not targeted measures were taken during this electoral year.

## Germany

German consumers are in the mid-tier concerning the impact of price hikes on real income (1,8% since February). Gas prices have not gone up as much as in the Netherlands and Belgium. Electricity price increases (13% since September) has been moderate compared to other countries. As in France, the government intervened on the price of electricity, reducing the EEG surcharge at a cost of more than 3 billion. In March, further measures were announced, including reduction in fuel prices through a tax cut (30 cents for gasoline) and a 300 euros cheque. Overall costs of policies shielding consumers from the rise in energy prices amount to around 30 billion euros.

## Greece

Greece is also in the mid-tier in terms of impact on consumer prices. Notably, the price of electricity exploded since September 2021 (64%). However, the government decided on a 60% rebate capped at 600 euros and for households earning up to 45 000 euros a year. This will be financed partly on a tax on the profits of energy suppliers. This might have, in part, some of the same effects of a regulated price but will not appear similarly in the national accounts, inflation, and household income.

## Hungary

Hungary is only moderately hit by price increases, despite having a land border with Ukraine. Energy prices for households are regulated (below cost) and did not move. Furthermore, a price cap was introduced on retail fuel prices. Price hikes are felt mostly through food prices (bread, milk, restaurants) and cars. Ireland is also relatively protected from energy price inflation, as reflected by the presence of Restaurants and Motor cars in the main contributors. The price of liquid fuels exploded but only represent 1% of consumption. The main policy is a 30% tax rebate on heat, electricity and broadband. The country also made mean-tested payments to households with the highest cost of home heating, and a 200 euros electricity credit to all households.

## Italy

With France, Italy is one of the countries who suffered the least from inflation since September. It is in the mid to lower tier since February. It entered the crisis with low growth and low inflation. The government implemented tax cuts in the gas and electricity sector, and also a 30 cents reduction of gasoline through July. Data for consumption share is not available for the year 2015. We used data for the year 2005. Latvia has seen an important impact of price increases (6,8% of income since September, 2,2% since February). Since February,

half is due to personal transport, which went up 14% (28% since September) and represent 7% of the consumer basket. Policies consist mainly in reducing the price of electricity.

### Lithuania

Not surprisingly, Lithuania is in a similar situation as Latvia. Transportation cost went up by the same amounts and have the same weight in consumption. During the crisis, the government decided to postpone the liberalisation of the energy market. It is noteworthy that impact on income since February is much higher for poorer households (2,6%) than richer (0,8%).

### Luxembourg

Luxembourg consumers were averagely hit by price increases. Since September, natural gas prices exploded (+58%) but weight in consummation basket is moderates (2%). As elsewhere, poorer households (1.6% of income) are more impacted than richer (0,8%).

### Malta

Malta is one of the least impacted countries in the European Union. As for Cyprus, it does not use natural gas for domestic heating. The energy provided is regulated and prices frozen. Price increases for consumers concern mainly food items.

### Netherlands

The Netherlands is perhaps both the most deregulated country in the European Union and the hardest hit by energy price inflation (3,4% since February, 8,3% since September). The main price hikes come from electricity (+112% since September) and Gas (+98%). Many consumers have variable price contracts and spot and future prices exploded. Also, the government is less prone to alter the price mechanism than in other countries. Tax cuts are only in effect since April 2022 (when other governments intervened in September and other did not need to intervene due to frozen prices).

### Poland

Poland shares the largest frontier with Ukraine in the European Union and hosts the most refugees. It is also in the top tier in terms of impact of prices on income (+2,2% since February, 6,2% since September). Gas prices, fuels, petrol increased severely. Since January, VAT is reduced on food, gas, petrol and heating. A cheque provides a maximum of 100 euros per person depending on income and type of heating.

### Portugal

Portugal is in the low-tier in terms of impact on consumers, which comes half from food, half from transportation (petrol). Energy tariffs for household consumers are regulated and are anticipated to decrease in 2022 relative to 2021. An Autovaucher reimburses up to 5 euros (20 since April) per month from petrol purchases (bank account reimbursement for those using the special Autovoucher card). This will probably be accounted for as a household transfer (see box).

### Romania

Romania is a southern neighbour to Ukraine and consumers suffer an average impact on prices, mostly from Gas, Petrol and Food: main contributors are not concentrated. Bread prices went up by 10% since September, which hurts the poorest households. Prices decreased real income of the poorest households by 2,6% since February against 1,1% for the richest. The government announced compensations for Electricity and gas. Government will compensate 4 lei per kw for households who respect a consumption limit.

**Slovakia**

Slovakia is a mid-tier country in terms of impact on prices, with moderate contributions across the board: Gas, Petrol, Heat, Electricity but also Bread and cereals. Price hikes hurt poorest households (1,5%) more than the richest (0,9%). Policy is mostly targeted to electricity prices, through a deal with the national company.

**Slovenia**

Slovenia is one of the lowest hit country in the European union, including price decreases since February. There are, however, a lot of monthly variability. Gasoline prices were capped in March and from February to end of April households were exempt from paying electricity bills and excise duties on electricity (Bruegel).

**Spain**

Spain is in the top tier for price impact on consumer income (2,2% of income since February, 6,3% since September). The main contributor is Electricity followed by Transportation (Petrol). The poorest households are hit almost three times as much as the richest (3,2% vs 1,3%). VAT was decreased on electricity according to consumption. A heating social bonus was also passed. In March Spain obtained permission from EU to get the status of energy island, which will enable to reduce the role of gas in the price mechanism in the electricity market, and introduce regulated rates.

**Sweden**

Since February, price increases have a moderate impact on income in Sweden, mostly through Electricity and Petrol. Sweden does not use natural gas in housing heating anymore (replaced with district heating and electricity). Tax on diesel and petrol were reduced since June. Housing and Child allowances were increased.



## 5 Annexes

## Main effect per countries

Price and Impacts (1/5)										
	Increase in price			Loss of purchase power				weight (2015, HICP)		
	since May. 2021	since Feb. 2022	since May. 2021	since feb. 2022						
				all quintiles	20% poorest	20% richest		total	20% poorest	20% richest
<b>Austria</b>										
00: Total	7.7%	2.8%	7.7%	2.8%	2.5%	1.2%	-	-	-	
0722: Fuels and lubricants fo...	49.9%	22.1%	2.0%	0.9%	0.6%	0.5%	4.1%	2.5%	4.0%	
0112: Meat	11.2%	8.0%	0.3%	0.2%	0.2%	0.1%	3.1%	3.2%	2.5%	
1111: Restaurants, caf��s and ...	6.9%	2.3%	0.7%	0.2%	0.1%	0.1%	9.5%	8.1%	8.7%	
0453: Liquid fuels	97.2%	37.5%	0.5%	0.2%	0.3%	0.1%	0.6%	0.6%	0.4%	
<b>Belgium</b>										
00: Total	9.9%	2.0%	9.9%	2.0%	1.4%	0.8%	-	-	-	
0453: Liquid fuels	101.1%	43.7%	1.3%	0.6%	0.6%	0.2%	1.3%	1.7%	0.9%	
0722: Fuels and lubricants fo...	32.6%	11.6%	1.2%	0.4%	0.2%	0.2%	3.7%	2.1%	3.9%	
0452: Gas	126.9%	10.0%	3.5%	0.3%	0.3%	0.1%	2.7%	3.4%	1.9%	
<b>Bulgaria</b>										
00: Total	13.3%	5.1%	13.3%	5.1%	4.3%	2.1%	-	-	-	
0722: Fuels and lubricants fo...	50.8%	22.2%	3.4%	1.5%	0.2%	0.8%	6.8%	1.0%	8.3%	
0112: Meat	18.0%	11.6%	0.8%	0.5%	0.5%	0.2%	4.5%	5.2%	3.1%	
0119: Food products n.e.c.	24.5%	9.9%	0.9%	0.4%	0.3%	0.1%	3.7%	4.3%	2.6%	
0111: Bread and cereals	30.4%	10.3%	1.0%	0.4%	0.3%	0.1%	3.4%	3.9%	2.4%	
0114: Milk, cheese and eggs	25.1%	9.3%	0.9%	0.3%	0.3%	0.1%	3.8%	4.4%	2.6%	
0452: Gas	148.3%	37.5%	1.2%	0.3%	0.3%	0.1%	0.8%	1.0%	0.6%	
1111: Restaurants, caf��s and ...	17.4%	6.4%	0.8%	0.3%	0.1%	0.2%	4.9%	1.2%	6.5%	
0454: Solid fuels	39.8%	10.1%	0.9%	0.2%	0.2%	0.1%	2.2%	2.6%	1.5%	
<b>Cyprus</b>										
00: Total	8.8%	3.3%	8.8%	3.3%	2.6%	1.6%	-	-	-	
0722: Fuels and lubricants fo...	34.2%	15.0%	2.2%	1.0%	0.5%	0.3%	6.6%	5.7%	4.8%	
0451: Electricity	40.2%	23.4%	1.5%	0.8%	0.7%	0.3%	3.6%	3.7%	2.7%	
1111: Restaurants, caf��s and ...	7.8%	3.3%	1.4%	0.6%	0.2%	0.3%	18.3%	7.6%	18.9%	
0112: Meat	12.4%	8.7%	0.4%	0.3%	0.3%	0.1%	3.0%	3.8%	2.0%	
0733: Passenger transport by air	5.0%	8.7%	0.1%	0.2%	0.2%	0.2%	2.7%	1.5%	3.2%	
<b>Czechia</b>										
00: Total	15.1%	5.1%	15.1%	5.1%	3.2%	1.9%	-	-	-	
0722: Fuels and lubricants fo...	44.3%	19.5%	2.0%	0.9%	0.2%	0.4%	4.4%	1.5%	4.6%	
0112: Meat	16.7%	11.0%	0.9%	0.6%	0.3%	0.1%	5.5%	5.4%	4.3%	
1111: Restaurants, caf��s and ...	25.8%	9.6%	1.5%	0.6%	0.2%	0.2%	5.8%	3.9%	6.4%	
0452: Gas	48.4%	14.1%	1.1%	0.3%	0.3%	0.1%	2.3%	3.0%	1.5%	
0114: Milk, cheese and eggs	18.4%	7.1%	0.8%	0.3%	0.1%	0.1%	4.2%	4.1%	3.2%	
0111: Bread and cereals	20.2%	7.5%	0.8%	0.3%	0.1%	0.1%	3.9%	3.8%	3.0%	
0451: Electricity	30.4%	6.0%	1.3%	0.3%	0.2%	0.1%	4.3%	5.6%	2.8%	
0711: Motor cars	13.8%	3.8%	0.7%	0.2%	0.0%	0.1%	5.3%	0.4%	7.1%	
<b>Germany</b>										
00: Total	8.7%	3.1%	8.7%	3.1%	2.9%	1.5%	-	-	-	
0722: Fuels and lubricants fo...	40.6%	17.2%	1.9%	0.8%	0.5%	0.4%	4.6%	2.4%	4.4%	
0452: Gas	38.3%	12.0%	1.3%	0.4%	1.4%	0.4%	3.3%	14.2%	8.5%	
0453: Liquid fuels	72.2%	27.1%	1.0%	0.4%	NA	NA	1.4%	NA	NA	
0112: Meat	16.3%	10.2%	0.4%	0.3%	NA	NA	2.7%	NA	NA	
0451: Electricity	21.3%	6.9%	0.7%	0.2%	NA	NA	3.4%	NA	NA	

### Price and Impacts (2/5)

	Increase in price		Loss of purchase power						
	since May. 2021	since Feb. 2022	since May. 2021	since feb. 2022			weight (2015, HICP)		
				all quintiles	20% poorest	20% richest	total	20% poorest	20% richest
<b>Denmark</b>									
00: Total	8.2%	3.1%	8.2%	3.1%	2.7%	1.2%	-	-	-
0722: Fuels and lubricants fo...	42.0%	17.4%	1.3%	0.5%	0.2%	0.3%	3.1%	1.1%	3.4%
0451: Electricity	60.3%	14.2%	2.0%	0.5%	0.6%	0.1%	3.3%	4.3%	2.3%
0112: Meat	11.7%	6.4%	0.4%	0.2%	0.1%	0.1%	3.3%	2.9%	2.8%
0711: Motor cars	9.1%	3.8%	0.5%	0.2%	0.0%	0.1%	5.5%	1.1%	5.1%
0452: Gas	120.2%	23.9%	1.0%	0.2%	0.3%	0.1%	0.8%	1.1%	0.6%
<b>Estonia</b>									
00: Total	20.0%	7.6%	20.0%	7.6%	6.9%	2.8%	-	-	-
0451: Electricity	145.3%	60.1%	6.9%	2.8%	5.0%	0.8%	4.7%	10.1%	3.9%
0722: Fuels and lubricants fo...	46.2%	20.9%	3.0%	1.3%	0.3%	0.6%	6.4%	1.6%	7.3%
0455: Heat energy	60.7%	23.7%	2.4%	0.9%	1.6%	0.3%	3.9%	8.3%	3.2%
0452: Gas	199.2%	63.1%	2.6%	0.8%	1.5%	0.2%	1.3%	2.8%	1.1%
0454: Solid fuels	66.2%	33.6%	0.8%	0.4%	0.7%	0.1%	1.1%	2.4%	0.9%
0411: Actual rentals paid by ...	24.4%	12.7%	0.7%	0.4%	0.2%	0.1%	3.0%	1.2%	2.3%
0112: Meat	14.6%	7.3%	0.6%	0.3%	0.3%	0.1%	4.2%	5.7%	3.3%
0113: Fish and seafood	42.3%	21.3%	0.5%	0.2%	0.2%	0.0%	1.2%	1.6%	0.9%
0114: Milk, cheese and eggs	19.8%	5.9%	0.7%	0.2%	0.2%	0.1%	3.6%	5.0%	2.9%
<b>Greece</b>									
00: Total	10.4%	3.6%	10.4%	3.6%	5.2%	2.2%	-	-	-
0722: Fuels and lubricants fo...	36.4%	16.0%	1.9%	0.8%	0.6%	0.5%	5.2%	2.5%	5.4%
0453: Liquid fuels	64.6%	27.0%	1.3%	0.6%	1.1%	0.3%	2.0%	2.3%	1.4%
0452: Gas	124.2%	48.8%	1.4%	0.5%	0.6%	0.1%	1.1%	1.2%	0.7%
0451: Electricity	80.0%	9.9%	4.0%	0.5%	1.0%	0.3%	5.0%	5.5%	3.3%
0112: Meat	13.6%	8.5%	0.6%	0.4%	0.6%	0.2%	4.5%	4.6%	3.1%
0111: Bread and cereals	13.3%	6.0%	0.6%	0.3%	0.4%	0.1%	4.9%	5.0%	3.4%
1111: Restaurants, cafés and ...	4.1%	2.1%	0.5%	0.3%	0.3%	0.1%	12.8%	11.2%	11.3%
0114: Milk, cheese and eggs	14.0%	6.0%	0.5%	0.2%	0.3%	0.1%	3.8%	3.9%	2.7%
<b>Spain</b>									
00: Total	8.5%	2.2%	8.5%	2.2%	3.0%	1.2%	-	-	-
0722: Fuels and lubricants fo...	29.3%	10.0%	1.8%	0.6%	0.7%	0.3%	6.1%	4.8%	5.6%
0112: Meat	8.5%	4.5%	0.5%	0.3%	0.3%	0.1%	6.1%	6.9%	4.6%
0453: Liquid fuels	86.0%	37.7%	0.6%	0.3%	0.4%	0.1%	0.7%	0.8%	0.5%
1111: Restaurants, cafés and ...	4.9%	1.8%	0.6%	0.2%	0.1%	0.1%	13.0%	7.0%	14.1%
<b>Finland</b>									
00: Total	7.1%	2.9%	7.1%	2.9%	2.5%	1.2%	-	-	-
0722: Fuels and lubricants fo...	41.1%	17.6%	1.9%	0.8%	0.5%	0.4%	4.6%	2.9%	4.9%
<b>France</b>									
00: Total	5.8%	1.9%	5.8%	1.9%	1.4%	0.7%	-	-	-
0722: Fuels and lubricants fo...	29.6%	10.7%	1.4%	0.5%	0.4%	0.2%	4.6%	3.8%	3.9%
0453: Liquid fuels	78.4%	32.2%	0.7%	0.3%	0.3%	0.1%	0.8%	1.0%	0.6%
0452: Gas	49.3%	10.8%	1.0%	0.2%	0.2%	0.1%	2.1%	2.4%	1.6%

### Price and Impacts (3/5)

	Increase in price			Loss of purchase power				weight (2015, HICP)		
	since May. 2021	since Feb. 2022	since May. 2021	since feb. 2022						
				all quintiles	20% poorest	20% richest	total	20% poorest	20% richest	
<b>Croatia</b>										
00: Total	10.6%	4.3%	10.6%	4.3%	5.1%	2.0%	-	-	-	-
0722: Fuels and lubricants fo...	34.8%	17.3%	1.9%	0.9%	0.5%	0.5%	5.4%	2.2%	5.5%	
0451: Electricity	10.6%	7.9%	0.6%	0.5%	0.7%	0.2%	5.9%	7.3%	4.2%	
0453: Liquid fuels	102.6%	48.1%	1.0%	0.5%	0.8%	0.2%	1.0%	1.2%	0.7%	
1111: Restaurants, cafés and ...	13.7%	6.2%	0.9%	0.4%	0.2%	0.2%	6.6%	2.7%	8.1%	
0112: Meat	15.6%	7.0%	0.8%	0.4%	0.4%	0.1%	5.1%	5.6%	3.8%	
0111: Bread and cereals	22.2%	7.6%	1.0%	0.3%	0.4%	0.1%	4.3%	4.7%	3.2%	
0452: Gas	20.3%	12.4%	0.4%	0.2%	0.3%	0.1%	1.9%	2.4%	1.4%	
0114: Milk, cheese and eggs	20.4%	7.2%	0.7%	0.2%	0.3%	0.1%	3.2%	3.5%	2.4%	
<b>Hungary</b>										
00: Total	10.8%	3.5%	10.8%	3.5%	2.4%	1.5%	-	-	-	-
0112: Meat	20.7%	10.5%	1.2%	0.6%	0.4%	0.2%	5.6%	5.5%	4.1%	
0114: Milk, cheese and eggs	28.2%	12.0%	1.3%	0.6%	0.3%	0.2%	4.7%	4.5%	3.4%	
1111: Restaurants, cafés and ...	16.0%	5.6%	1.2%	0.4%	0.1%	0.2%	7.6%	3.2%	8.4%	
0111: Bread and cereals	26.0%	7.8%	1.1%	0.3%	0.2%	0.1%	4.1%	4.0%	3.0%	
<b>Ireland</b>										
00: Total	8.2%	3.2%	8.2%	3.2%	2.4%	1.3%	-	-	-	-
0453: Liquid fuels	101.5%	48.6%	1.3%	0.6%	0.8%	0.2%	1.3%	1.7%	0.9%	
0451: Electricity	40.7%	16.0%	1.2%	0.5%	0.3%	0.1%	2.9%	3.9%	2.0%	
1111: Restaurants, cafés and ...	4.1%	2.7%	0.7%	0.4%	0.2%	0.2%	16.1%	10.6%	16.2%	
0722: Fuels and lubricants fo...	33.5%	9.3%	1.5%	0.4%	0.3%	0.2%	4.6%	2.9%	4.0%	
0411: Actual rentals paid by ...	10.0%	3.3%	0.9%	0.3%	0.5%	0.0%	9.4%	21.6%	2.4%	
0452: Gas	56.6%	23.2%	0.6%	0.3%	0.2%	0.1%	1.1%	1.5%	0.7%	
0711: Motor cars	13.2%	3.1%	0.9%	0.2%	0.1%	0.1%	6.6%	2.6%	6.9%	
<b>Italy</b>										
00: Total	7.3%	1.4%	7.3%	1.4%	1.5%	0.3%	-	-	-	-
0722: Fuels and lubricants fo...	20.4%	4.9%	1.1%	0.3%	0.5%	0.1%	5.5%	4.6%	4.8%	
0452: Gas	62.2%	9.9%	1.6%	0.3%	0.5%	0.0%	2.6%	3.7%	1.7%	
<b>Lithuania</b>										
00: Total	18.4%	5.4%	18.4%	5.4%	5.2%	1.7%	-	-	-	-
0722: Fuels and lubricants fo...	49.4%	20.2%	3.6%	1.5%	0.7%	0.6%	7.2%	3.1%	8.5%	
0114: Milk, cheese and eggs	37.8%	13.9%	1.5%	0.6%	0.6%	0.1%	4.0%	5.0%	3.0%	
0112: Meat	18.4%	9.9%	1.0%	0.5%	0.6%	0.1%	5.5%	6.8%	4.0%	
0455: Heat energy	97.1%	14.0%	2.6%	0.4%	0.2%	0.1%	2.7%	3.0%	2.0%	
0111: Bread and cereals	26.1%	10.4%	0.8%	0.3%	0.4%	0.1%	3.1%	3.8%	2.3%	
0454: Solid fuels	115.7%	20.7%	1.4%	0.3%	0.3%	0.1%	1.2%	1.3%	0.9%	
<b>Luxembourg</b>										
00: Total	9.1%	3.1%	9.1%	3.1%	2.6%	1.3%	-	-	-	-
0722: Fuels and lubricants fo...	48.6%	20.5%	5.4%	2.3%	1.8%	0.8%	11.2%	10.3%	8.5%	
0453: Liquid fuels	98.4%	43.5%	0.6%	0.3%	0.2%	0.1%	0.7%	0.7%	0.4%	

### Price and Impacts (4/5)

	Increase in price			Loss of purchase power				weight (2015, HICP)		
	since May. 2021	since Feb. 2022	since May. 2021	since feb. 2022						
				all quintiles	20% poorest	20% richest	total	20% poorest	20% richest	
<b>Latvia</b>										
00: Total	16.6%	7.3%	16.6%	7.3%	6.0%	2.8%	-	-	-	-
0451: Electricity	48.1%	57.8%	1.7%	2.1%	1.9%	0.4%	3.6%	5.5%	2.4%	
0722: Fuels and lubricants fo...	50.8%	26.6%	3.6%	1.9%	0.4%	1.1%	7.2%	1.5%	8.4%	
0455: Heat energy	47.3%	16.3%	1.9%	0.7%	0.6%	0.1%	4.1%	6.2%	2.8%	
0112: Meat	16.3%	10.1%	0.8%	0.5%	0.5%	0.1%	5.0%	5.8%	3.7%	
0454: Solid fuels	62.5%	29.7%	0.8%	0.4%	0.5%	0.1%	1.4%	2.1%	0.9%	
0114: Milk, cheese and eggs	25.7%	7.8%	1.3%	0.4%	0.4%	0.1%	5.1%	5.9%	3.8%	
0111: Bread and cereals	21.3%	6.7%	1.2%	0.4%	0.3%	0.1%	5.5%	6.3%	4.1%	
0452: Gas	106.1%	23.3%	1.3%	0.3%	0.3%	0.1%	1.2%	1.9%	0.8%	
<b>Malta</b>										
00: Total	5.8%	1.7%	5.8%	1.7%	1.6%	0.7%	-	-	-	-
1111: Restaurants, cafés and ...	7.9%	3.1%	0.8%	0.3%	0.2%	0.1%	9.7%	6.6%	8.6%	
0112: Meat	13.4%	8.1%	0.5%	0.3%	0.3%	0.1%	3.6%	3.9%	2.5%	
0432: Services for the mainte...	19.7%	5.9%	0.7%	0.2%	0.2%	0.1%	3.7%	4.2%	3.2%	
<b>Netherlands</b>										
00: Total	10.2%	3.1%	10.2%	3.1%	4.4%	1.9%	-	-	-	-
0452: Gas	109.7%	24.1%	4.6%	1.0%	2.1%	0.6%	4.2%	4.8%	3.1%	
0451: Electricity	119.0%	18.9%	4.3%	0.7%	1.6%	0.5%	3.7%	4.1%	2.7%	
0722: Fuels and lubricants fo...	27.4%	8.4%	1.3%	0.4%	0.2%	0.3%	4.8%	2.1%	5.5%	
0112: Meat	13.7%	7.6%	0.5%	0.3%	0.2%	0.1%	3.4%	3.0%	2.9%	
<b>Poland</b>										
00: Total	12.7%	5.0%	12.7%	5.0%	4.0%	2.1%	-	-	-	-
0722: Fuels and lubricants fo...	35.3%	29.0%	2.2%	1.8%	0.7%	1.0%	6.3%	2.5%	7.3%	
0454: Solid fuels	99.4%	36.8%	2.1%	0.8%	0.6%	0.2%	2.1%	2.2%	1.6%	
0112: Meat	18.4%	11.8%	0.7%	0.5%	0.4%	0.1%	3.8%	3.9%	2.8%	
<b>Portugal</b>										
00: Total	8.0%	2.9%	8.0%	2.9%	2.9%	1.4%	-	-	-	-
0722: Fuels and lubricants fo...	26.3%	10.5%	1.3%	0.5%	0.4%	0.3%	4.8%	2.5%	4.4%	
0112: Meat	15.6%	9.5%	0.7%	0.4%	0.5%	0.1%	4.6%	5.1%	3.2%	
0451: Electricity	23.3%	13.6%	0.7%	0.4%	0.5%	0.1%	3.1%	4.1%	2.1%	
0115: Oils and fats	42.9%	23.6%	0.5%	0.3%	0.3%	0.1%	1.1%	1.2%	0.7%	
0111: Bread and cereals	13.0%	5.3%	0.6%	0.2%	0.3%	0.1%	4.7%	5.2%	3.3%	
0113: Fish and seafood	13.6%	6.0%	0.5%	0.2%	0.2%	0.1%	3.9%	4.3%	2.7%	
0452: Gas	40.6%	20.0%	0.5%	0.2%	0.2%	0.1%	1.2%	1.5%	0.8%	
<b>Romania</b>										
00: Total	12.4%	4.6%	12.4%	4.6%	5.5%	2.3%	-	-	-	-
0722: Fuels and lubricants fo...	46.0%	17.2%	3.1%	1.2%	0.2%	0.9%	6.7%	1.1%	9.5%	
0452: Gas	73.9%	22.2%	1.9%	0.6%	0.7%	0.2%	2.6%	2.8%	1.9%	
0111: Bread and cereals	21.6%	7.7%	1.6%	0.6%	0.8%	0.2%	7.3%	8.4%	5.5%	
0451: Electricity	18.0%	22.5%	0.4%	0.5%	0.7%	0.2%	2.3%	2.5%	1.7%	
0112: Meat	11.5%	5.1%	1.1%	0.5%	0.7%	0.2%	9.5%	11.0%	7.2%	
0114: Milk, cheese and eggs	13.1%	5.7%	0.6%	0.3%	0.4%	0.1%	4.8%	5.6%	3.7%	

### Price and Impacts (5/5)

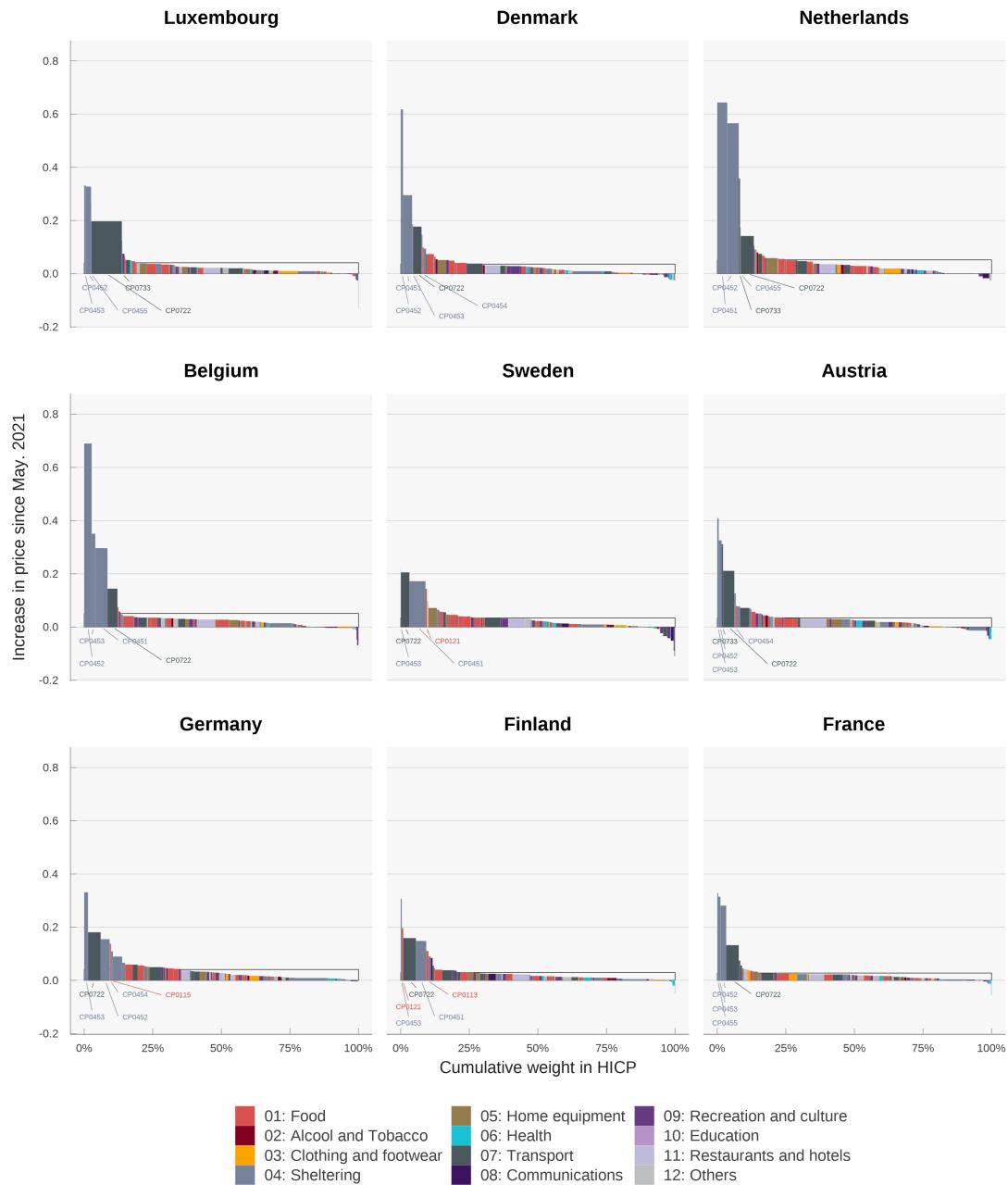
	Increase in price			Loss of purchase power				weight (2015, HICP)		
	since May. 2021	since Feb. 2022	since May. 2021	since feb. 2022						
				all quintiles	20% poorest	20% richest	total	20% poorest	20% richest	
<b>Sweden</b>										
00: Total	7.5%	2.9%	7.5%	2.9%	2.9%	1.3%	-	-	-	-
0451: Electricity	34.3%	16.2%	2.0%	0.9%	0.9%	0.4%	5.9%	5.3%	5.5%	
0722: Fuels and lubricants fo...	41.3%	11.0%	1.3%	0.3%	0.3%	0.2%	3.2%	1.9%	3.0%	
<b>Slovenia</b>										
00: Total	8.7%	2.7%	8.7%	2.7%	2.0%	0.8%	-	-	-	-
0722: Fuels and lubricants fo...	37.3%	16.6%	2.6%	1.1%	0.6%	0.4%	6.9%	3.7%	7.0%	
0453: Liquid fuels	42.0%	35.6%	0.4%	0.4%	0.5%	0.1%	1.0%	1.3%	0.7%	
0112: Meat	12.0%	7.7%	0.5%	0.3%	0.3%	0.1%	4.4%	4.6%	3.2%	
1111: Restaurants, cafés and ...	10.0%	3.5%	0.7%	0.3%	0.1%	0.1%	7.4%	3.5%	8.3%	
<b>Slovakia</b>										
00: Total	11.7%	3.9%	11.7%	3.9%	3.0%	1.7%	-	-	-	-
0722: Fuels and lubricants fo...	36.7%	16.6%	1.3%	0.6%	0.2%	0.3%	3.5%	1.5%	3.7%	
0112: Meat	16.3%	8.8%	0.9%	0.5%	0.4%	0.1%	5.6%	6.0%	4.3%	
0111: Bread and cereals	18.6%	6.6%	0.9%	0.3%	0.2%	0.1%	4.6%	4.9%	3.5%	
0114: Milk, cheese and eggs	17.2%	6.1%	0.7%	0.3%	0.2%	0.1%	4.3%	4.6%	3.3%	
1111: Restaurants, cafés and ...	13.4%	4.4%	0.6%	0.2%	0.1%	0.1%	4.8%	3.5%	4.5%	

**Figures over a one year period**

Figure 10: Price increase since one year (1/3)

**Price increases since May. 2021**

subfig 1.



Reading note: each 3 digit COICOP is represented in decreasing inflation order

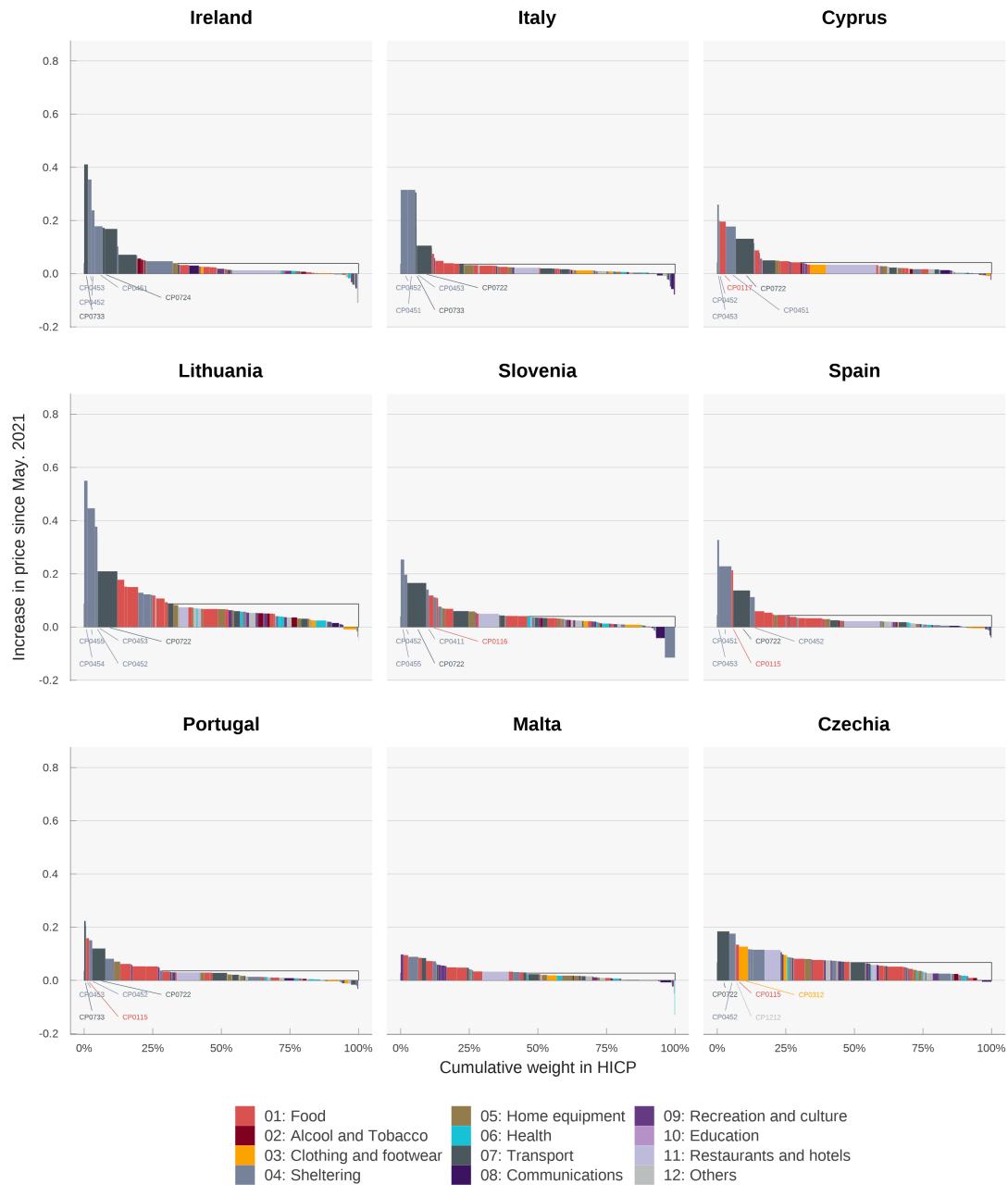
Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution

Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

Figure 11: Price increase since one year (2/3)

**Price increases since May. 2021**

subfig 2.



Reading note: each 3 digit COICOP is represented in decreasing inflation order

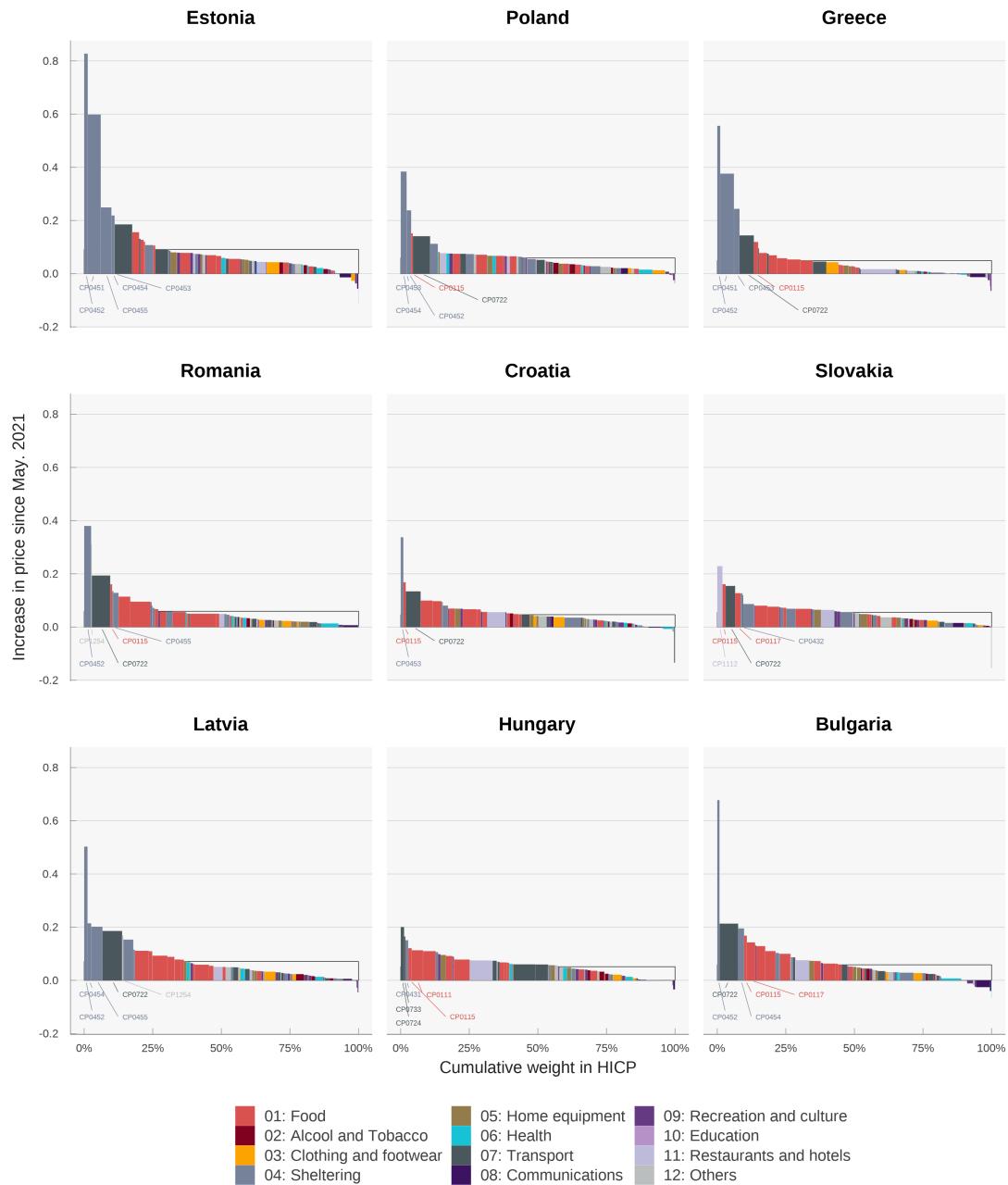
Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution

Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

Figure 12: Price increase since War one year (3/3)

**Price increases since May. 2021**

subfig 3.

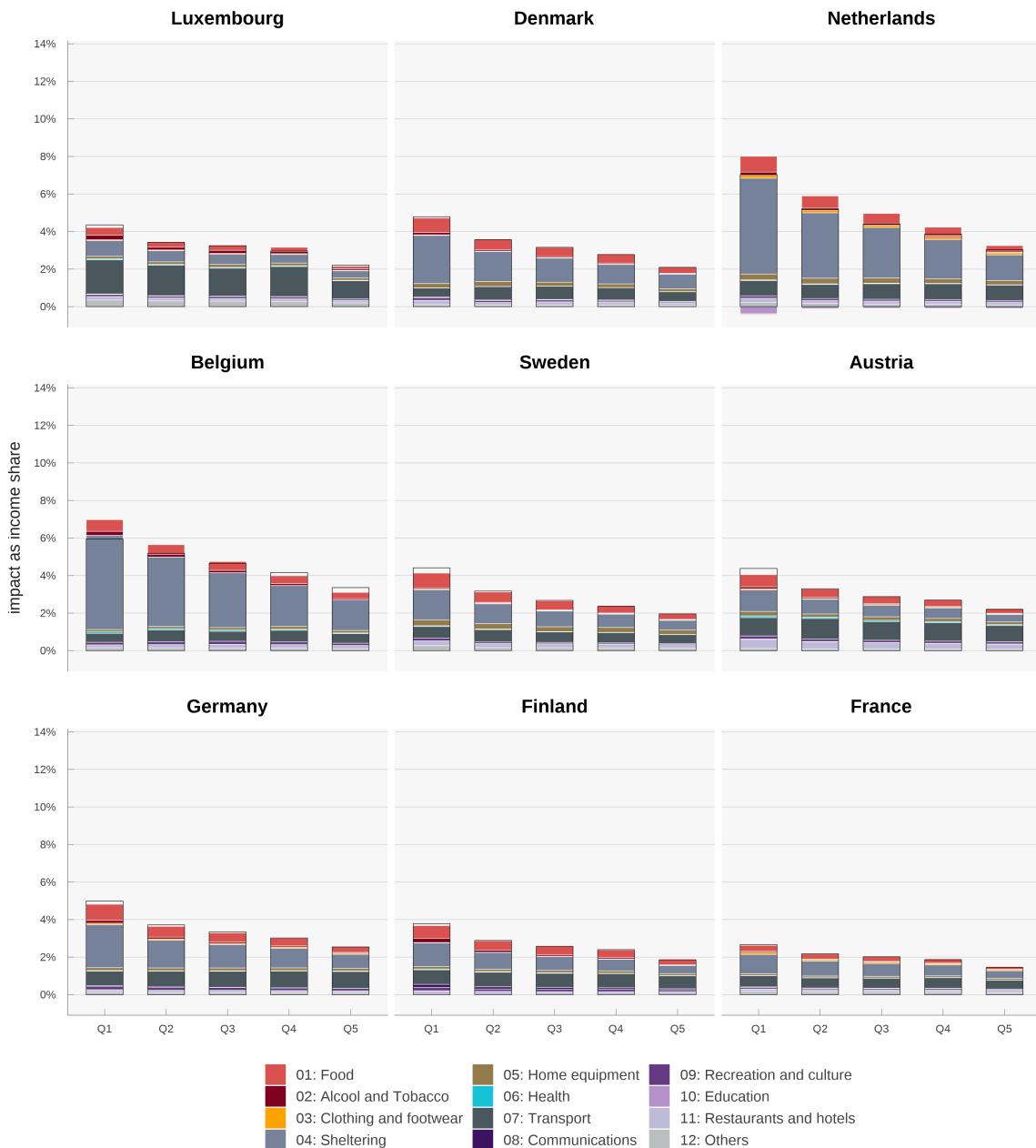


Reading note: each 3 digit COICOP is represented in decreasing inflation order  
 Height of the bar is the increase in prices, width if the weight in HICP, hence the area is the contribution  
 Source: Eurostat prc\_hicp\_midx, prc\_hicp\_inw

Figure 13: Impact on income per quintile (1/3)

**Impact on income per quintile of income since war in Ukraine**

% of quintile income  
from May to May 2022  
subfig 1.

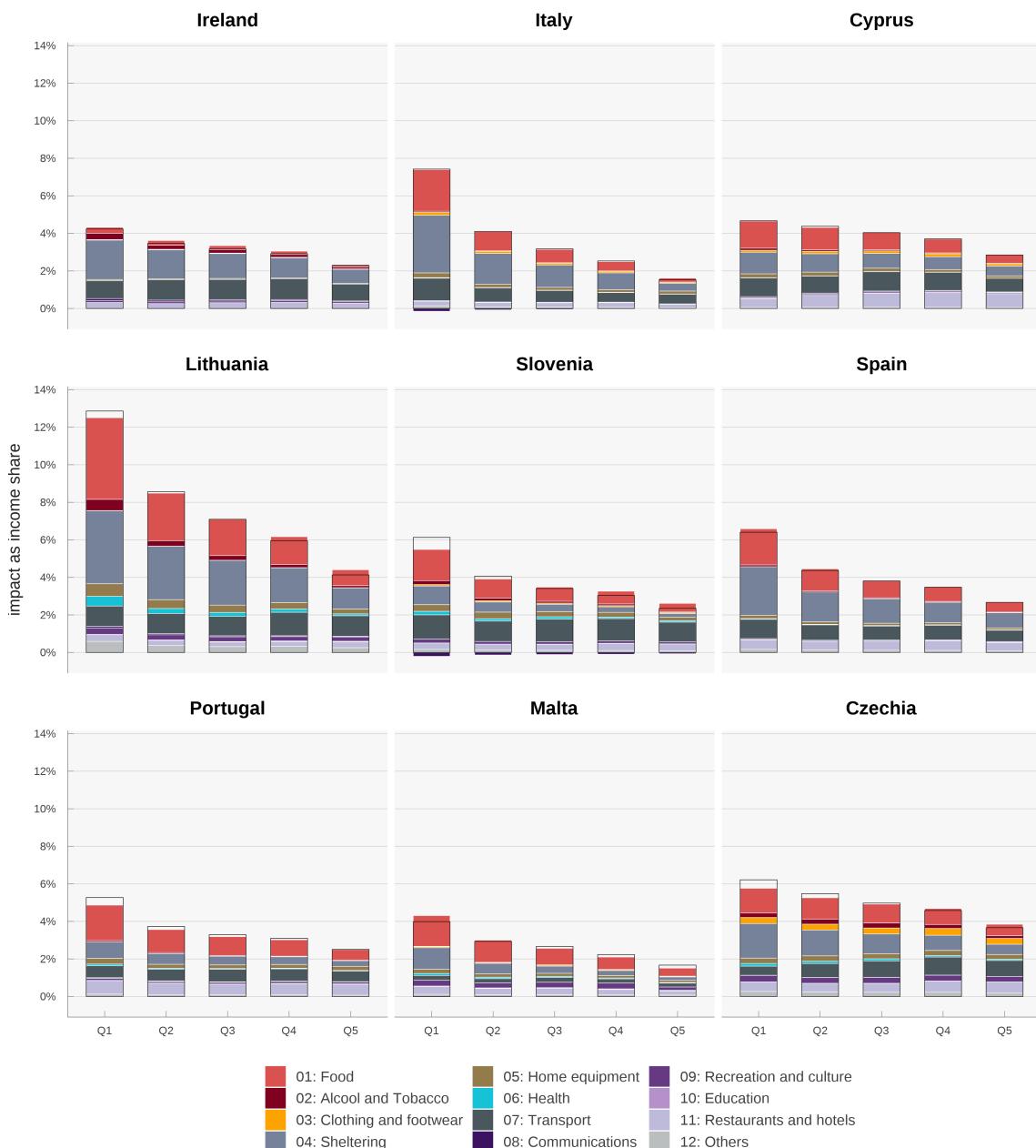


Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per cociop (hbs\_str\_t211),  
income and expenditure per quintile (icw\_res\_02)

Figure 14: Impact on income per quintile (2/3)

**Impact on income per quintile of income since war in Ukraine**

% of quintile income  
from May to May 2022  
subfig 2.

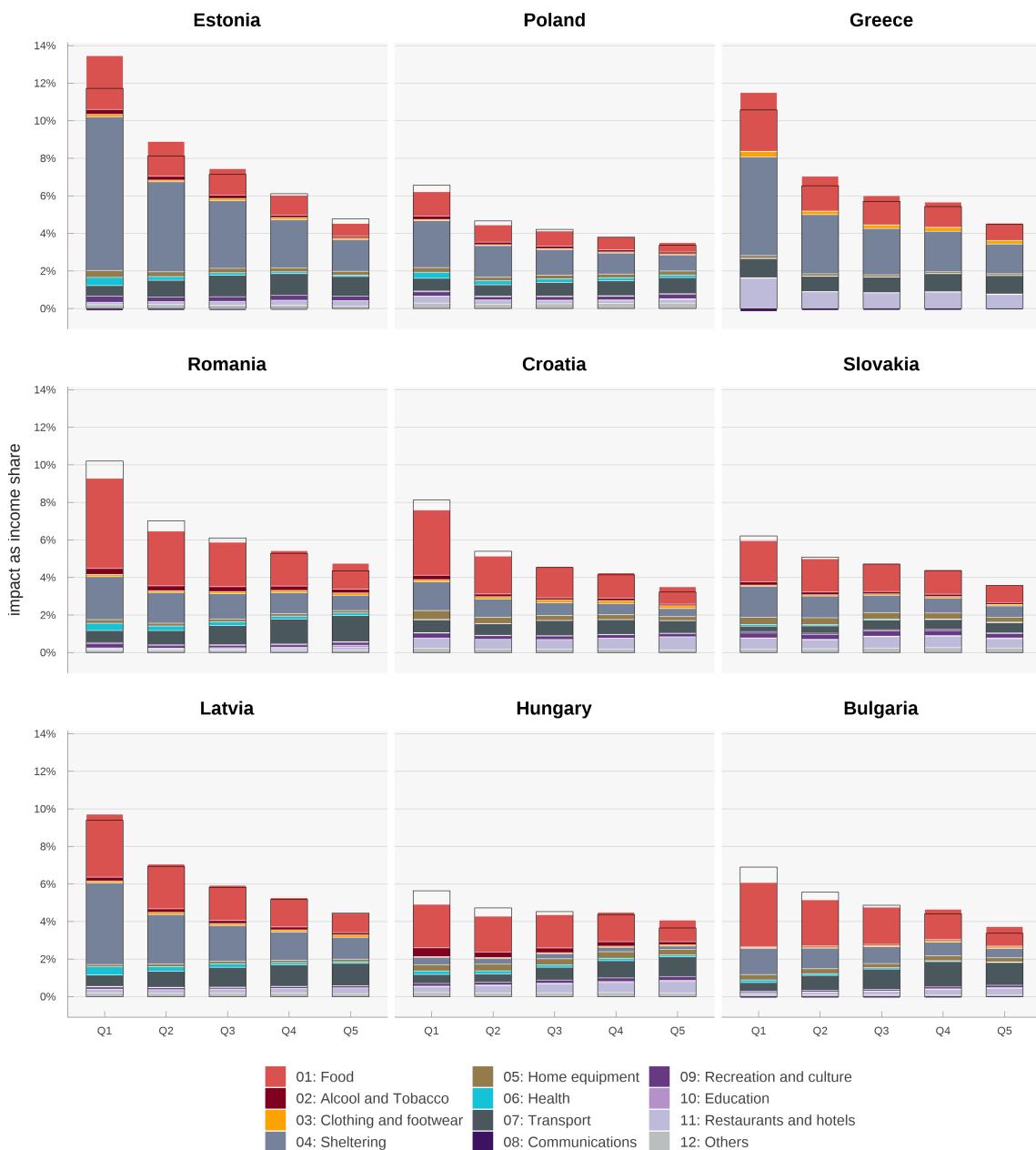


Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per cociop (hbs\_str\_t211), income and expenditure per quintile (icw\_res\_02)

Figure 15: Impact on income per quintile (3/3)

**Impact on income per quintile of income since war in Ukraine**

% of quintile income  
from May to May 2022  
subfig 3.



Sources: Eurostat HICP, consumption per quintile (hbs\_str\_t223), consumption per cociop (hbs\_str\_t211),  
income and expenditure per quintile (icw\_res\_02)