[Statement by Vice-President for the Digital Single Market Andrus Ansip on the European Parliament's vote on wholesale roaming prices]

"As of 15 June 2017 people will be able to switch on mobile services, especially data, without fear of high bills while travelling in the EU.

I welcome today's positive vote of the European Parliament on wholesale roaming prices, following the agreement reached between the European Parliament, the Council and the Commission at the beginning of the year.

This is a great achievement for all of us. Notwithstanding the final OK from Member States, this agreement on wholesale roaming prices will be the final step to end roaming charges for all travellers in the EU.

After nearly ten years, the EU is now putting a definitive end to the roaming anxiety that has plagued Europe since the beginning of the mobile era. Exorbitant roaming prices were an anomaly in a continent where people move freely between countries. With the end of roaming charges for travellers, we will achieve a much more vibrant Digital Single Market. At last, people will be able to stop turning off their data or phones when they cross an EU border and this will have an immediate positive impact on the lives of Europeans."

For more information:

[Vice-President Ansip's speech ahead of the vote at the European Parliament]

[Frequently Asked Questions on Roam Like at Home]

[Updated MEMO and factsheets]

[End of roaming charges for travellers in the EU in 2017]

1. Roaming in the EU

How does roaming work in the EU?

When you travel to a foreign country and phone, text or surf online with your mobile phone or device using your home country's SIM card, you are roaming. Your mobile phone operator and an operator in the country where you are travelling, work together to keep you connected, so you can make and receive mobile phone calls, write text messages, surf the internet and download content.

When you roam while being abroad, your operator in your home country pays the operator in the foreign country for the use of their networks. The price paid between operators is called the wholesale roaming price. These wholesale prices represent a cost to the home country operator and therefore impact on consumers' final bills. This is why the Commission has worked to limit wholesale roaming prices in the EU, in parallel to its work to directly limit the prices paid by the consumer (retail roaming prices).

What are the different domestic prices for mobile services across the EU?

Consumer prices in the EU reflect different national consumption patterns, regulatory and market characteristics, including significant differences in costs of running networks. For example, consumers in Latvia spent in 2014 on average €3.70 a month and Irish consumers an average of €23.80 per month for using their mobile phones.

Europeans have different travel habits across the EU, and there are also different network costs in visited countries. A recent European Commission study also shows that consumer retail offers vary between Member States. For example, in 2016 the cheapest monthly deals offering 1GB of data, 600 minutes of calls and 225 SMS ranged from €60 in Hungary to €8 in Estonia (excl. VAT and any smartphone subsidy).

2. EU action against roaming charges

Since 2007, the European Commission has successfully worked to reduce the consumer price of roaming. This has changed the habits of many Europeans who previously used to switch their mobile phones off while travelling. In 2013, the European Commission proposed legislation to end roaming charges for people periodically travelling in the EU. In October 2015, the European Parliament and the Council agreed that this should be in place as of 15 June 2017 (see details).

The agreement also foresaw a transition period and a new important decrease in prices at the end of April 2016. Already since then, when travelling in the EU, users could feel significant decreases in prices, as they have to pay only a small amount on top of their domestic prices: up to €0.05 per minute of call made, €0.02 per SMS sent, and €0.05 per MB of data (excl. VAT).

As of 15 June 2017, you will be able to use your mobile device when travelling in the EU, paying the same prices as at home, i.e. to *roam like at home*, subject to operators' fair use policies. For instance, if you pay for a monthly package of minutes, SMS and data in your country, any voice call, SMS and data session you make while travelling abroad in the EU will be deducted from that volume as if you were at home, with no extra charges. This means the end of roaming charges as travellers have experienced them so far.

What have been the different decreases in roaming prices?

- Since 2007, the EU has achieved retail price reductions across calls of **92%**[1]
- Since 2009, the EU has achieved retail price reductions across SMS of **92%**[2]
- Data roaming is now up to **96% cheaper** compared to 2012 when the first EU retail price cap became applicable on data roaming[3]
- Between 2008 and 2015, the volume of data roaming has been multiplied by more than 100.

Regulated Roaming tariffs 2007 – 2016

(€ excl. VAT)

	Voicecall made	**Voicecall received**	**SMS**	**Data Wholesale MB**	**Data Retail MB**
2007	0,49	0,24			
2008	0,46	0,22			
2009	0,43	0,19	0,11	1,00	
2010	0,39	0,15	0,11	0,80	
2011	0,35	0,11	0,11	0,50	
2012	0,29	0,08	0,09	0,25	0,70
2013	0,24	0,07	0,08	0,15	0,45
2014	0,19	0,05	0,06	0,05	0,20
2015	0,19	0,05	0,06	0,05	0,20
2016	domestic price + up to 0,05	0,0114	domestic price + up to 0,02	0,05	domestic price + up to 0,05

What measures are needed to end roaming charges?

When agreeing the *roam like at home* mechanism, the European Parliament and the Council asked the Commission to develop a number of supporting measures to make this work in practice:

– A legislative proposal, by 15 June 2016, to reform the **wholesale roaming market**, the maximum prices which operators charge each other for the use of their networks by roaming customers. Following the proposal made by the Commission, the European Parliament and Member States reached an agreement on 31 January 2017 to set the subsequent wholesale roaming caps:

- €0.032 per min of voice call, as of 15 June 2017
- €0.01 per SMS, as of 15 June 2017
- A step by step reduction over 5 years for data caps decreasing from €7.7/GB (on 15 June 2017) to €6/GB (01/01/2018), €4.5/GB (01/01/2019), €3.5/GB (01/01/2020), €3/GB (01/01/2021) and €2.5/GB (01/01/2022)

– Rules on ‘**fair use**‘ measures that operators can take to prevent abusive or anomalous usage of the system, such as systematic resale of low-price SIM cards for permanent use in other countries. Such fair use policies are necessary to avoid negative effects on consumers on domestic markets. The Commission’s ‘fair use policy’ clarifies consumer rights while introducing safeguards to ensure that the most competitive domestic offers remain attractive.

– An **exceptional and temporary derogation system** for operators to be used only **if authorised by the national regulator**, under strict circumstances when the end of roaming charges in a specific market could lead to domestic price increases for the customers of the operator.

3. The end of roaming charges for all Europeans travelling in the EU

How will the end of roaming charges work?

Mobile operators have to offer their roaming services at domestic prices to consumers who **either normally reside in or have stable links to the Member State of the operator**, while those customers are periodically travelling in the EU. If necessary, operators can ask their customers to provide proof of residence or of such stable links to the Member State in question. Roaming providers may apply fair, reasonable and proportionate control mechanisms based on objective indicators to detect the risks of abusive or anomalous use of *roam like at home* beyond periodic travelling.

Who will be covered?

The draft rules will enable all European travellers using a SIM card, that allows roaming from a Member State in which they reside or with which they have ‘stable links’ to, use their mobile device in any other EU country, just as they would at home.

Examples of ‘stable links’ include cross-border commuters and posted workers, Erasmus+ programme beneficiaries such as students, apprentices or volunteers.

Europeans will pay domestic prices when they call, text or go online from their mobile devices and will have full access to other parts of their mobile subscription (e.g. monthly data package).

Do I need to register to Roam Like at Home?

No formal registration is required to benefit from the *roam like at home* mechanism. From 15 June 2017, it should be included by default in all customers’ mobile contracts on which operators offer roaming. Operators may ask consumers to provide proof that their **home (residence)** is in the Member State of the mobile operator (in case they do not already dispose of such information for billing purposes).

The consumer may also prove **stable links** entailing frequent and substantial presence on the territory of the Member State of the mobile operator, like an employment relationship or following recurring courses at University.

How will personal data be protected?

The roaming fair use rules explicitly require the roaming providers to comply with the relevant data protection rules. The Commission has consulted the European Data Protection Supervisor and has taken his comments into account. Operators can only use the information they already gather for billing purposes to check to what extent customers are using mobile and data services abroad compared to their consumption at home.

Will Europeans still be able to buy different SIM cards in different Member States?

Yes. EU citizens can continue to buy any other SIM card in any EU Member State and surf and call at local tariffs or roam with that card. However they might not be able to benefit from *roam like at home* if they are not resident in the country where they bought the card or if they do not have stable links entailing frequent and substantial presence in this country.

What will be the role of the national regulatory authorities?

As under existing roaming rules, national regulatory authorities will monitor and check if mobile operators comply with the new rules, and take action if that is not the case.

Are there any regulatory safeguards?

The safeguards against abuse are based on clear principles and include indicators and tools which are reasonable, non-discriminatory, transparent, and respect privacy. In order to detect potential abuses, the roaming provider may perform checks of the usage patterns of customers both in their own Member State and in other Member States (control mechanism). This will be based on the information which operators already use to bill their customers.

Identifying abusive or anomalous traffic patterns should be based on the following clear and transparent **indicators**:

- A pair of indicators to be observed **over a period of at least four months**, establishing whether the customer has a) prevailing roaming **consumption** over domestic consumption **AND** b) prevailing **presence** in other Member States of the EU over domestic presence (log-on to the roaming provider’s network);
- Long inactivity of a given SIM card associated with use mostly, if not exclusively, while roaming;
- Subscription and sequential use of multiple SIM cards by the same customer while roaming;

Fair use policies have to be notified by the roaming provider to the national regulatory authority and be spelled out in detail in contracts.

- **Fighting commercial abuses.** Abuses could be related to the mass purchase and resale of SIM cards for permanent use outside the country of the operator issuing them. In such cases, the operator will be allowed to take immediate and proportionate measures while informing the national regulator (e.g. suspension of service on the basis of breach of contractual conditions). The operator has to simultaneously notify the national regulatory authority about the evidence of the systematic abuse and the measures taken. This enables the national regulatory authority to monitor the application of that measure in accordance with the established requirements and to react if necessary.

- **Individual abuse by customers**. Roam like at home is designed for travellers. Operators can check usage patterns to avoid abuse based on the above-mentioned indicators. In order to determine that the user might be abusively or anomalously using *roam like at home*, the operator would have to show the abuse over a period of time of at least four months. If a customer spends more than two months abroad out of four months, and if the customer has consumed more abroad than at home over this time, operators may send an alert to that customer. Once the alert is received, the customer will have two weeks to clarify the situation. If the user continues to remain abroad, operators will be able to apply small surcharges (equivalent to wholesale roaming caps, agreed on 31 January 2017).

In case of disagreement, complaints procedures must be put in place by the operator. If the dispute persists, the customer may complain to the national regulatory authority who will settle the case.

The rules will protect consumers from adverse consequences such as an increase in domestic prices:

- **For pre- paid metered contracts: when a customer goes abroad,** she/he can *roam like at home* up the amount of credit remaining on the pre-paid card. For data, the customer can use at least the volume that can be purchased by the remaining credit on the pre-paid card at the wholesale roaming data price cap.

In the Czech Republic, Zoran has a €20 pay and go (pre-paid) card for data, calls and texts. By the time he goes on holiday, Zoran has €13 (€10.74 excluding VAT[4]) credit remaining on his card. While being abroad, Zoran can enjoy a volume of data equivalent to the value of his credit. This means he gets the equivalent of €13 worth at the wholesale roaming data price cap. Based on the caps agreed by the European Parliament and Member States, this would give Zoran almost 1.4 GB of data roaming in as of 15 June 2017 and 1.8 GB of data roaming as of 1 January 2018.

- **For the most competitive contracts that offer unlimited data or data at very low domestic prices, below the wholesale cap:** when a customer goes abroad she/he will continue to enjoy the full allowance of calls and texts. For data, the customer will have at least twice the volume of data that can be purchased by the value of the customer's monthly contract at the wholesale roaming data price cap.

For example: with his €70 (€57.85 excl. VAT[5])per month contract, Tim living in the Netherlands gets unlimited calls, texts and data for his smartphone. While travelling abroad, he will have unlimited calls and text. For data, he will get twice the equivalent of €57.85 worth at the wholesale roaming data price cap. Based on the caps agreed by the European Parliament and Member States, this would give Tim over 15 GB of *roam like at home* data as of 15 June 2017 and 19.3 GB of roam-like-at-home data as of 1 January 2018.

An agreement on wholesale caps is the last step towards making *roam like at home* a tangible reality for consumers. Following this political agreement, the European Parliament and the Council will have to formally approve the text agreed between them and the Commission. The rules will become applicable in time for operators to provide *roam like at home* from 15 June 2017.

On 15 December the European Commission adopted the implementing rules (fair use policy and sustainability mechanism) to end roaming charges in the European Union in 2017. This followed intensive consultations with the European Parliament, Member States, stakeholders, consumer representatives, BEREC (Body of European Regulators in Electronic Communications) and operators the European Commission. The measure was voted on by Member State's representatives on 12 December 2016. This act entered into force 20 days after its publication in the Official Journal of the UE (17 December 2016).

The approved fair use policy makes sure that all European travellers will enjoy the *roam like at home* opportunity by paying the same price for mobile calls, SMS or data whether they travel away from their 'home' (their country of residence or with which they have stable links). The measure further clarifies consumer rights and introduces safeguards to ensure the most competitive domestic offers remain attractive.

Will the end of roaming charges increase domestic prices?

Since EU Regulations have been introduced to reduce roaming charges, domestic mobile prices have been decreasing as well. This trend is likely to continue.

A transition period has been agreed in the latest Roaming Regulation (November 2015) to make the abolition of roaming charges sustainable throughout the EU without an increase in domestic prices. This transition period – starting from 30 April 2016 to 15 June 2017 – allows the necessary time to prepare the end of roaming charges.

The Implementing Act adopted by the Commission in December 2016 provides detailed rules on the **two safeguards** foreseen by the co-legislators in the latest Roaming Regulation to avoid distortions on domestic markets that could otherwise lead to price increases: (1) **fair use rules** to enable mobile operators to prevent, where necessary, abusive or anomalous use of roaming services, such as permanent roaming – this rules include specific measures related to **data** and **pre-paid cards**, cf. above, (2) an exceptional and temporary **derogation system** for operators to be used only if authorised by the national regulator, under strict circumstances when the end of roaming charges in a specific market could lead to domestic price increases for the customers of the operator. The text foresees that this derogation can only be authorised by the national regulator if the retail roaming losses of the operator would be equivalent to 3% or more of its mobile services margin.

In the Impact Assessment accompanying the proposal for the regulation of wholesale roaming markets on 15 June 2016, the Commission concluded that with the maximum wholesale charges proposed by the Commission at the time (4EUR cents/min, 8.5EUR/GB and 1EUR cent/SMS) the vast majority of mobile operators would not need to apply for this exceptional and temporary derogation system. The Commission considers that its conclusions at the time will be supported by the lower wholesale roaming caps agreed on 31 January 2017.

More information

General factsheet on the end of roaming charges

Detailed factsheet: How does it work?

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[1] The average European Economic Area (EEA) retail roaming price for a voice call made was 0,61 EUR/minute in the third quarter of 2007 prior to the introduction of the first cap of 0,49 EUR/minute.

[2] The average EEA retail roaming price for an SMS was 0,25 EUR/SMS in the third quarter of 2009 prior to the introduction of the first cap of 0,11 EUR/SMS.

[3] The average EEA retail roaming price for one MB of data was 1,20 EUR/minute in 2012 prior to the introduction of the first cap of 0,70 EUR/MB in 2012.

[4] 21% VAT in the Czech Republic

[5] 21% VAT in the Netherlands

ESMA promotes common approach to rules supporting the use of smaller CRAs

The European Securities and Markets Authority (ESMA) has issued a Supervisory Briefing to national Sectoral Competent Authorities (SCAs), regarding the application of Articles 8(c) and (d) of the CRA Regulation (Regulation), to assist them with their supervision and enforcement of these provisions and promote supervisory convergence through adoption of a common supervisory approach.

The Supervisory Briefing, while addressed to SCAs, also streamlines compliance with Article 8(d)’s requirements for issuers and related third parties, by proposing a Standard Form for documenting the decision not to appoint a smaller CRA.

The Regulation aims to encourage competition in the credit ratings industry in the EU, with Articles 8 (c) and (d) requiring issuers or related third parties to consider appointing a smaller credit rating agency (CRA) when they intend to appoint two or more CRAs for the rating of an issuance or entity. However, implementation of these articles were hindered by a lack of clarity in a number of areas, including which issuers were captured by these requirements and how they should document the decision on use of CRAs.

In order to address these issues the Supervisory Briefing contains two parts, a Common Supervisory Approach and a Standard Form:

- the common supervisory approach aims is to assist the SCAs responsible for the supervision and enforcement of the Articles. It clearly establishes who should be prioritised for supervision and enforcement under these provisions.
- For issuers and related third parties, this common supervisory approach also provides clarity to their status under this articles;
- the Standard Form's purpose is to assist issuers and related third parties by providing clarity as to how they may meet their regulatory obligations under these provisions. It removes the need to develop in-house templates for documenting compliance under Article 8d of the CRA Regulation; and
- For SCAs, the standard form will provide standardised, consistent and comparable data as to why issuers and related third parties in their jurisdictions are not appointing smaller CRAs.

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Speech Mario Draghi: Monetary policy and the economic recovery in the euro area

Speech by Mario Draghi, President of the ECB, at The ECB and Its Watchers XVIII Conference, Frankfurt am Main, 6 April 2017

Over the course of the crisis, the making of monetary policy has become progressively more complex. We have operated in an environment where the limits of our traditional instruments have been tested, and where new instruments have had to be introduced. This has required adaptation, not just by those of us who decide on it, but also by the Watchers who observe it and attempt to anticipate it.

Meetings such as this today have therefore taken on a special importance, since they represent an opportunity to communicate in both directions: for us to explain to you our assessment and our reaction function, and for you to provide your feedback.

So in that spirit, I would like to make three points today.

First, that our monetary policy is working and that it has been a key factor behind the resilience of the euro area economy over recent years. Second, that the recovery is progressing and may now be gaining momentum, though risks still remain tilted to the downside. Third, that despite these improvements, inflation dynamics continue to depend on the continuation of our current monetary policy stance – a stance that is determined by the interaction between all three main policy instruments: interest rates, asset purchases and forward guidance on both.

Monetary policy is working

For a large part of the crisis, the story of the euro area was one of abortive recoveries. The rebound that took place from 2009 to 2011 was derailed by the onset of the sovereign debt crisis. We then saw a nascent recovery beginning in mid-2013, but it also lost steam by the summer of 2014 as the external environment became more uncertain. The euro area economy, in other words, was consistently struggling to gain momentum and seemed highly vulnerable to new shocks.

This is not surprising given the severity of the crisis and the depth of the economic slump. Even today, the legacies of the financial crisis are still a drag on the recovery and the global environment remains uncertain. The balance of risks to the growth outlook remains tilted to the downside due to geo-political factors.

But things have also been clearly improving. Since mid-2014, the recovery has evolved from being fragile and uneven into a firming, broad-based upswing. Quarterly GDP growth has been consistently between 0.3% and 0.8%. Employment has grown by more than 4.5 million people. And this is despite the fact that we have encountered adverse shocks in that period, not least the slowdown in emerging market economies and renewed tensions in the euro area banking sector.

So what accounts for this improved resilience of the euro area economy? Certainly the recovery cannot be explained by “endogenous” or underlying growth forces, which were unusually weak in its early phase. Nor can several of the “exogenous” factors that have supported previous euro area recoveries provide an answer.

First, in the past euro area growth has been closely interdependent with *world trade*, with external demand playing a central role in supporting the recoveries after the dotcom crash and the Lehman bankruptcy. Since mid-2014, however, world trade has weakened considerably and last year grew at the slowest pace since the financial crisis. Yet the correlation with euro area output has more or less broken down. Growth has accelerated even as world trade has fallen back.

Second, though *fiscal policy* has stopped being a headwind – as it was during the 2011-13 period – it has not been much of a tailwind to the recovery either. With governments still undertaking a necessary process of balance sheet repair, fiscal policy between 2013 and 2015 was basically neutral and provided only a mildly positive contribution to growth last year. This contrasts with both the post-Lehman and post-dotcom recoveries where the fiscal stance was more expansionary.[1]

Third, the contribution of the supply side to the recovery has so far been limited. There have been few *structural reforms* in the last few years that would justify higher expenditure by firms and households as they revise up their future income. And this is especially true for reforms to product markets and the business environment, which typically have the strongest impact on current spending.

So based on simple growth accounting, there are only two "exogenous" factors left that can realistically explain the resilience of the recovery: the collapse in oil prices in 2014-15 and our monetary policy. And this is also what we find in our internal model-based estimates, which show that growth has been highly reliant on these two forces. All told, we estimate that half of the extra GDP growth achieved during the current recovery has been attributable to our policy, with a material contribution from oil prices as well.

This central role played by monetary policy can be further demonstrated by looking at the channels through which our policy has been working. One channel has been the divergence of monetary policy cycles across advanced economies since mid-2014, and its consequences for exchange rates, which have helped insulate euro area exporters from weakening global demand. They have in fact been able to maintain or even regain market shares as world trade has slowed.

But still more important has been the effect of our policy package on the domestic economy. As I have outlined in detail elsewhere[2], since we adopted our credit easing package, we have seen a substantial easing in financing conditions for the euro area economy. Market financing costs have fallen, while bank lending rates for both firms and households have dropped by more than 110 basis points and are now at historical lows. This has been accompanied by rising lending volumes and improved access to finance, especially for small- and medium-sized enterprises.

And crucially, our policy has not only eased financing conditions on average, but triggered a remarkable *convergence* in borrowing costs across different euro area countries. Granular data show that in June 2014 the median lending rate for firms in vulnerable economies was 120 basis points higher than for those in stronger ones – despite overnight rates being close to zero. Today the difference is only 20 basis points. Without this, it is likely that large parts of the euro area would have been remained stuck in a self-sustained credit crunch.

The recovery is progressing and gaining momentum

As this policy stimulus has worked its way through the economy, the atypical makeup of the recovery – relying mostly on monetary policy and oil prices – has been gradually shifting towards a stronger contribution from underlying growth forces. This is evident from the fact that, as the impetus coming from oil prices wanes, the economy is accelerating rather than slowing.

There are indeed *three features* of the recovery which give us confidence that it may be gaining its own momentum, although – given the severity of the slump we are emerging from – monetary policy still remains critical to facilitate the transition.

The first is that the recovery is being propelled by a virtuous circle between rising consumption, employment growth and labour income. As low financing costs and, initially, low oil prices have fed through into household spending, the labour market has strengthened and real disposable incomes have accelerated. Around 50% of the rise in real labour income since mid-2014 can be explained by more people in work, with most of the rest explained by lower inflation boosting real wages.

This has in turn fed further consumption growth as households have kept saving rates stable, leading to higher employment, income and spending. And as aggregate demand has strengthened, investment has also begun a cyclical recovery, which we expect to reinforce growth dynamics going forward. However, it still remains 10% below its pre-crisis peak and well below its historical trend.

Importantly, domestic demand has firmed against the backdrop of improved private sector balance sheets, which is the second key feature of the recovery. For virtually the first time since the start of monetary union, spending has been rising while indebtedness has been going down. Especially in formerly stressed countries, debt ratios for both firms and households have fallen substantially. And pertinent for the strength of the recovery, the drivers of this deleveraging have been changing.

Bear in mind that there are two types of deleveraging: “macroeconomic” deleveraging – reducing debt ratios through nominal growth – and “balance sheet” deleveraging: paying off or writing down debt. Historically, the most drastic processes of deleveraging, including the post-war episodes and the recent post-crisis episode in the US, have relied on both mechanisms. But the contribution of nominal growth has always been decisive for success.

In the euro area, until recently, real growth and inflation were too low to foster macroeconomic deleveraging, so balance sheet repair had to take place through the more painful channel, conflicting with the objective of macroeconomic stabilisation. Rising nominal growth is now helping to reconcile those two goals. Nevertheless, further efforts are still needed to work through the legacies of the crisis, especially in parts of the euro area banking sector where non-performing loans remain high.

The third important feature of the recovery is its *broadness* across sectors and countries – which is to say, it has not only strengthened but become more homogenous across the euro area. This reflects above all the effectiveness of our measures in narrowing financing conditions across different economies.

If one looks at the percentage of all sectors in all euro area countries that have positive growth, the figure stood above 80% at the end of last year – above its historical average of 73% and the level observed during the 2009-11 recovery. Similarly, the dispersion in growth rates across both sectors and countries has also narrowed significantly and both are now at their lowest level since 1997.

The same story is visible for employment. In early 2014 the vast majority of euro area headcount growth was coming from Germany. As that year progressed the contribution from Spain began to rise, driven by the recovery in activity and previous labour market reforms. And since the second half of 2015 the employment turnaround has extended into other formerly stressed economies as well, including in particular Italy, Ireland and Portugal. Just as for GDP growth rates, the dispersion of employment growth across euro area countries is now at record low levels.

So though the risks to the growth outlook remain tilted to the downside – mainly on account of the geo-political factors I mentioned earlier – the balance seems to be shifting upwards. This is reflected in recent sentiment indicators, which suggest that the recovery may be gaining momentum. The latest euro area composite Purchasing Managers' Index (PMI), for example, which is a reasonably consistent leading indicator for euro area GDP growth, gave the highest reading since April 2011.

This was also the assessment of the Governing Council at its last monetary policy meeting in March, where the staff projections for growth in the coming years were revised slightly upwards. And in light of the improving risk outlook, the Council affirmed that it is no longer concerned about deflation risks, nor do we perceive a sense of urgency to take further measures to combat adverse tail risks.

Inflation dynamics depend on continued policy support

Yet despite these signs of progress, it is clearly too soon to declare success. In important ways the outlook for price stability remains unchanged. In particular, while growth and employment *rates* have been converging upwards across the euro area, significant gaps still remain in terms of *levels*. In large parts of the euro area there are still substantial under-utilised resources, reflected in a negative output gap and high unemployment rates.

And this is of course crucial for our assessment of the path of inflation – namely, whether we see a sustained adjustment that would warrant a scaling back of our exceptional degree of monetary policy accommodation.

Let me remind you that we have established four criteria to confirm a sustained adjustment: first, that headline inflation is on a path to levels below but close to 2% over a meaningful medium-term horizon; second, that inflation will be durable and stabilise around those levels with sufficient confidence; third that inflation will be self-sustained, meaning it will maintain its trajectory even with diminishing support from monetary policy. And finally, it goes without saying that in each case the relevant metric is euro area inflation not the inflation rates of any individual country.

For the first criterion, the assessment does now seem to be improving: our latest projections foresee the path of headline inflation now much closer to the target over 2017-2019. But the inherent uncertainty in the forecasting process needs to be mitigated by cross-checking with other available information on inflation dynamics. Particularly useful here are measures of underlying inflationary pressures, since they can be monitored in real-time and tend to be more informative than headline inflation for medium-term price developments.

For us to be confident in the second criterion – that inflation is not just converging towards our aim, *but stabilising around it* – we would need to see signs of such pressures building. But there is so far scant evidence of this.

Much of the increase we have seen in headline inflation in recent months has been driven by its volatile components. Of the 1.4 percentage point rise from November last year to February this year – when inflation peaked at 2% – more than 90% was explained by energy and food price inflation. Measures of underlying inflationary dynamics, by contrast, remain subdued. One such measure, HICP excluding food and energy, has hovered around 0.9% since mid-2013 and still shows few convincing signs of an upward trend. Most alternative measures are also sluggish by historical standards and show little movement towards our aim.

An important source of subdued underlying inflation trends has been weak domestic price pressures, driven partly by subdued wage growth. Despite the domestic nature of the recovery, annual wage growth in terms of compensation per employee reached the historical low of 1.1% in the second quarter of 2016. Wage growth has since recovered somewhat – rising to 1.4% by the end of last year – but remains well below historical averages. This is where the issue of *levels* comes in – that is, the significant degree of labour market slack.

Decomposing the forces that have weighed on wage growth[3], we find two principal drivers: first, the still-high unemployment rate and its effect on wage bargaining dynamics; and second, a below-average contribution from past inflation in wage formation, caused by the last few years of exceptionally low headline inflation. As monetary policy has successfully supported demand and stabilised inflation expectations, both of these drivers should wane going forward. Their dragging effect on wage growth, however, will take time to fade out.

Labour market slack will lessen as unemployment continues to fall, but it is unclear how quickly this will feed through into wage dynamics – especially if the experience of other advanced economies is instructive. A strengthening labour market may attract “marginally attached” workers back into the labour force, or encourage those "underemployed" to seek more hours, causing the effective supply of labour to rise in tandem with demand. Domestic wage pressures may therefore only materialise later in the economic expansion.

The influence of the second driver – low past inflation – should also dissipate given the recent recovery of headline inflation. But this may take some time since a number of factors might slow down the reaction of wages to higher inflation.

First, wage negotiations in many countries and sectors have largely been concluded for this year, meaning any impact of higher inflation via negotiated wages is likely to be delayed. Second, in countries where formal wage indexation has declined sharply during the crisis, the pass-through of headline inflation to wages may have weakened. Third, that pass-through also depends in part on labour market slack, since in an environment of high unemployment trade unions may be prepared to prioritise job security over some loss in real wages.

In short, for the time being there are grounds for being cautious when assessing the durability of the inflation outlook. For us to be confident that inflation will indeed stabilise around our aim, we would need to see clear evidence that underutilised resources are declining and feeding through more convincingly into domestic price formation.

For that, it is clear that continued support for demand remains key. And this provides the answer to the third criterion: we are not yet at a stage when inflation dynamics can be self-sustaining without monetary policy support. The recovery of inflation still depends on the very favourable financing conditions that firms and households enjoy, which in turn depends on the substantial degree of monetary policy accommodation we have in place today. Accordingly, our inflation projections still include a material contribution from monetary policy over the next two years.

For this reason the Governing Council at its last meeting confirmed the appropriateness of the current very accommodative monetary policy stance.

The monetary policy stance is still appropriate

Yet it is important to understand that our stance is no longer determined by just one tool, policy interest rates. It is determined by the calibration of, and interaction between, the whole array of instruments we have introduced: the level of policy rates, the pace of asset purchases, and our forward guidance on both. It is the *combination* of all these tools that sets a given stance. The different elements have complementary effects on preserving the very easy financing conditions that are necessary for generating sustainable inflation convergence.

Our current interest rate policy and our forward guidance on the future path of rates affect the risk-free term structure of interest rates, which is the benchmark for the pricing of all other assets and interest rates. Our asset purchases complement these interest rate policies by directly compressing the term premium and other risk premia, both via portfolio rebalancing effects and by underlining the central bank’s commitment to keep interest rates at a low level – i.e. signalling effects.

And since the Governing Council deems the current stance fully appropriate, it confirmed at its last meeting that net asset purchases will continue until the end of December 2017, or beyond, if necessary, and in any case until we see a sustained adjustment in the path of inflation consistent with our inflation aim. It also confirmed its expectation that key ECB interest rates will remain at present or lower levels for an extended period of time, and well past the horizon of our net asset purchases.

This implies that our various policy instruments are deliberately chained together in such a way that the forward guidance applied to our asset purchase programme – which is time- and state-dependent – extends also to our interest rate policy. So our forward guidance is de facto on the entire package, not on any specific component of it. And this guidance relates not just to the *conditions* under which we would withdraw stimulus – i.e. the sustained adjustment in the path of inflation – but also to the *sequence* of measures we would use to do so.

The logical basis for this sequence stems from the same reason why we exploited the margin provided by conventional interest rate policy before resorting around the same time to negative interest rates and large-scale net asset purchases.

In a multi-country monetary union such as the euro area made up of segmented national financial markets, asset purchases are inevitably more difficult to calibrate, more complex to implement, and more likely to produce side-effects than other instruments. So it is natural that we turned to them only after other, more conventional options were becoming exhausted. Similarly, lowering interest rates into negative territory in a largely bank-intermediated financial system was a step into uncharted waters.

From today’s perspective, however, the negative rates, in conjunction with the other elements of our easing package, have turned out to be powerful in terms of easing financial conditions. And the potential negative side effects have so far been limited. As household deposit rates have been sticky at zero, banks’ net interest rate margins have fallen somewhat. But the impact on bank profitability has been offset by the positive effects of easier financial conditions on the volume of lending, and the reduction in loan-loss provisions, as monetary policy has lifted economic prospects.

The current wording of our forward guidance reflects exactly this assessment of side effects. And from today’s standpoint, I do not see cause to deviate from the indications we have been consistently providing in the introductory statement to our press conferences.

Conclusion

So to conclude: we are confident that our policy is working and that the outlook for the economy is gradually improving. As a result, the forces that are currently weighing on domestic price pressures should continue to wane.

But even so, we have not yet seen sufficient evidence to materially alter our assessment of the inflation outlook – which remains conditional on a very substantial degree of monetary accommodation. Hence a reassessment of the current monetary policy stance is not warranted at this stage.

Before making any alterations to the components of our stance – interest rates, asset purchases and forward guidance – we still need to build sufficient confidence that inflation will indeed converge to our aim over a medium-term horizon, and will remain there even in less supportive monetary policy conditions.