A New Balancing Act: Monetary Policy Tradeoffs in a Changing World

Mary C. Daly, President and Chief Executive Officer
Federal Reserve Bank of San Francisco

Inflation Targeting – Prospects and Challenges
Sponsored by the Reserve Bank of New Zealand
and the International Monetary Fund
Wellington, New Zealand
August 29, 2019
9:30AM NZT

Remarks as prepared for delivery.

Introduction

Good morning, and thank you for the opportunity to participate in this conference. This is my first trip to New Zealand, and I’ve thoroughly enjoyed touring about. I had the double bonus of seeing our good friends from California – New Zealanders actually – who returned home to Christchurch about four years ago. In my travels so far, I can see why New Zealand is on everyone’s bucket list!

I’m also delighted to be here in my capacity as president and CEO of the Federal Reserve Bank of San Francisco – and to help mark the 30th anniversary of New Zealand’s commitment to an explicit inflation-targeting regime. It was the first of its kind and has influenced central banks around the world.

But to be effective, monetary policymaking must continually evolve. We live in a dynamic world that demands we remain humble about what we know – and curious about what we might learn.
New Zealand is a great example of this. You haven’t been complacent during the past 30 years. Indeed, you recently moved to an explicit dual mandate – one that requires both price stability and full employment.

This is a framework we have a lot of history with in the United States. So you might think I will be providing some lessons from our experience with balancing these two objectives.

And I’d like to. But the situation isn’t that simple. The world has changed since we first took on a dual mandate more than 40 years ago. And things are different. In the United States, here in New Zealand, and in countries around the world, a new – and less familiar – economic environment has emerged.

Our collective futures now include slower potential growth, lower long-term interest rates, and persistently weak inflation. This new landscape demands we think differently about how to balance and achieve our price stability and full employment objectives.

So today, I will share how I’m thinking about these issues from my seat at the San Francisco Fed. But before I begin, let me say that the remarks I make today are my own, and do not necessarily reflect the views of anyone else within the Federal Reserve System.

**A New Economic Environment**

To understand the new environment we face, we first have to look back to the past. And here I will use the United States as an example.

When I started working at the Federal Reserve in 1996, I learned three important facts – the “deep” parameters of central banking (Figure 1).
First, the potential growth rate of the U.S. economy averages around 3.5 percent. Second, the real neutral rate of interest – or r-star – also averages around 3.5 percent in the United States.¹ Third, unemployment and inflation are strongly linked through the Phillips curve.

Fast forward to 2019. These facts – these deep parameters – feel like a distant memory (Figure 2). As of June, participants of the Federal Open Market Committee put longer-run potential growth in the U.S. at about 1.9 percent. Estimates of the long-run neutral rate of interest were penciled in at just 0.5 percent.² As for the Phillips curve... most arguments today center around whether it's dead or just gravely ill. Either way, the relationship between unemployment and inflation has become very difficult to spot.

---

¹ The Congressional Budget Office estimate of real potential growth averaged 3.5 percent from 1949 to 1996 (https://www.cbo.gov/about/products/budget-economic-data#11). Based on estimates from Laubach and Williams (2003), the real neutral rate of interest averaged 3.9 percent from 1961 to 1996, with a decline evident in the early 1990s (https://www.newyorkfed.org/research/policy/rstar).

² The median of longer-run GDP growth in the June Summary of Economic Projections was 1.9 percent. The median of the longer-run real rate of interest was 0.5 percent. See Board of Governors (2019b).
Although the numbers may be a little different, the changes I’ve described are not unique to the United States. Global demographic shifts and lower productivity gains are tempering growth and reducing long-run interest rates in many countries.3 And a number of central banks are finding that inflation is less responsive to labor market improvements than in the past.

These trends have important implications for monetary policy. Lower r-star and the zero lower bound mean we’ll have less room to maneuver when the next downturn occurs.4 And the fainter signal coming from the Phillips curve means we have less direct, real-time feedback about how monetary policy is playing out in the economy.

In other words, the jobs of central banks have gotten harder.

**Uncertainty and Tradeoffs**

When I lay out the backdrop I just described, I’m almost always asked the same questions. First, if inflation isn’t rising, can we run the economy as

---

3 Holston, Laubach, and Williams (2017).
4 One of the lessons learned from the financial crisis and its aftermath is that alternative tools like forward guidance and the balance sheet can be effective at stimulating economies. However, they’re still imperfect substitutes for the most effective tool at our disposal: traditional interest rate adjustments.
hot as we want without consequence? And second, does monetary policy really affect inflation anymore?

Let me tackle the hot economy question first.

Despite many years of trying, I’ve been unable to find evidence of a “free lunch.” Actions always have consequences, and there are always tradeoffs to consider. Some are immediate, and some take time to develop.

The question is... what are the tradeoffs in today’s economic environment? If the normal tension between unemployment and inflation has weakened, how do we know whether we’ve achieved our full employment mandate?

Again I’ll turn to the U.S. experience. Our current expansion passed the 10-year mark in July – a U.S. record. Unemployment has fallen from 10 percent at its peak in October 2009 to near historic lows – just 3.7 percent in July. Other critical labor market indicators have also improved, including prime-age labor force participation, job-finding rates, wages, and income.

These improvements have been particularly notable for disadvantaged workers who often struggle to get a foothold in the workforce.5 Recent research I’ve done with colleagues examines this pattern closely.6 We looked into whether running a hot economy – compared with just a sustained expansion – provides extra benefits to marginalized groups.

We found that, when the unemployment rate drops below what is thought to be its long-run sustainable level, the benefits to marginalized groups increase. Said simply, the gains to running a hot economy disproportionately flow to groups that are historically less advantaged.

---

5 Petrosky-Nadeau and Valletta (2019).
6 Aaronson et al. (2019).
These findings are echoed in the comments we hear from workforce development and community leaders. They tell us that the current hot economy has allowed many of their constituents to get a second look from employers.7

This outcome is intuitive. When labor markets are tight and firms are competing for workers, they find new ways to fill jobs. They recruit more intensively, adjust hiring standards, and look to a broader pool of potential employees.8 These conditions create more opportunities for disadvantaged groups.

All of this means that assigning too much weight to our projections of the long-run sustainable rate of unemployment – or u-star – risks undershooting what the labor market can really deliver. Indeed, central banks in the United States and other countries have been marking down their estimates of u-star as unemployment rates have fallen.9 And recent research in the United States and here in New Zealand points to non-inflationary rates of unemployment that are even lower than current estimates of the natural rate would imply.10

But as I said before... there is no free lunch. There are potential consequences to running a hot economy we need to consider.

For instance, an overly tight labor market might encourage businesses and workers to make decisions that have negative long-term effects on

---

7 Powell (2019).
8 This insight was originally documented in Okun (1973). This type of behavior is documented more recently in Davis, Faberman, and Haltiwanger (2013), Leduc and Liu (2019 forthcoming), Abraham and Haltiwanger (2019), and Modestino, Shoag, and Ballance (2016).
9 In 2012, the FOMC Summary of Economic Projections put the longer-run unemployment rate between 5.2 and 6 percent (Board of Governors 2012). In June 2019, the median estimate of u-star had fallen to 4.2 percent (Board of Governors 2019b).
10 Petrosky-Nadeau and Valletta (2019), Crump et al. (2019), and Jacob and Wong (2018).
potential output. Some research has found that persistently strong economic conditions can pull young people out of school – a choice that may undermine their future job prospects and earning potential.\footnote{Charles, Hurst, and Notowidigdo (2018), and Cascio and Narayan (2019).} And anecdotal evidence suggests that firms may reduce investments in employee training and skill development to reduce the costs of rapid employee turnover.

We also have to think about how running the economy hotter affects financial stability. If interest rates get too low, and borrowing becomes too easy, imbalances in financial markets could once again develop. In the United States, I’m closely watching the high level of corporate debt, particularly among riskier firms. While I don’t view current corporate indebtedness as posing an acute financial stability risk, this vulnerability could amplify the macroeconomic impact of any shocks to the economy.

So we need to stay vigilant. But for now, the latest Federal Reserve Financial Stability Report judges that the U.S. financial sector remains resilient.\footnote{Board of Governors (2019a).} And if vulnerabilities were to increase further, there are instruments such as the countercyclical capital buffer that we might want to consider before making monetary policy more restrictive.

Putting this all together, where do I come out on the tradeoffs of running a hot economy? Right now, with little inflationary pressure and considerable uncertainty about the threshold for full employment, I’m biased towards including as many workers as possible in the expansion.
Every Tenth Counts

Now let me turn to the second question: Can monetary policy still affect inflation?

Looking at the data does give one pause. Inflation rates in many countries have remained stubbornly below 2 percent for more than a decade. This is despite considerable monetary stimulus and relatively healthy labor markets.

Now, some would argue that these misses are not really meaningful – just a couple of tenths. But in our new economic environment, every tenth counts. There are a number of difficulties that could arise with persistent misses on our 2 percent goal.

One of the most important benefits of inflation targeting was that it resulted in well-anchored inflation expectations. Households and firms became willing to smooth through idiosyncratic price shocks rather than incorporate them into wage demands or long-term contracts. This success is reflected in the research that shows expectations, rather than past inflation, have become the key determinant of future inflation.13

But like most things, expectations can cut both ways. If we consistently fall short of our inflation target, expectations will drift down. We’re already seeing signs of softness in survey- and market-based measures of longer-run inflation expectations.14

Persistent misses on inflation will make the public more likely to incorporate these delivered outcomes into their plans. The anchor we worked

13 Jordà et al. (2019) and IMF (2013).
so hard to achieve will move from the 2 percent target we talk about to the less-than-2 percent inflation we deliver.

This is particularly worrisome given the proximity of the effective lower bound. Below-target inflation translates directly into less policy space to offset negative economic shocks. In very practical terms, if inflation expectations are a quarter point below our target when the next downturn arrives – and so are nominal interest rates – that’s one less rate cut at our disposal.

**Monetary Policy in a Changing World**

Looking ahead, persistently low inflation presents a new problem for monetary policymakers.

Thirty years ago, central banks around the world needed to tamp down rising inflation. The Reserve Bank of New Zealand responded by boldly introducing inflation targeting as a new monetary policy framework. Others quickly followed. These flexible inflation-targeting regimes played a large role in bringing inflation under control and in anchoring inflation expectations.

Today, we’re fighting a different battle. We’re fighting inflation from below our target. This final figure (Figure 3) shows how dramatic the change has been.
As central bankers, we have to ask ourselves: Are we powerless to respond to these new dynamics? Or do we simply need new tools?

Our current tool, flexible inflation targeting, is by design forgetful. It lets bygones be bygones and makes no attempt to make up for past inflation misses. This worked well when inflation shocks were tilted to the upside and we had plenty of policy space to offset unwanted increases.

In our new world of low inflation and low r-star, this approach has clear challenges. It runs the risk of repeatedly delivering below-target inflation during expansions, and leaving the economy with even less policy space when the next downturn hits.

Alternative strategies such as average inflation targeting and price-level and nominal income targeting explicitly include a make-up strategy. They ensure inflation misses balance out over time. While no magic bullet, these
make-up approaches recognize that we’ll need to be intentional – rather than opportunistic – about offsetting inflation underruns.  

Of course, any changes in our monetary policy framework require careful and deliberate thought. The current approach has been effective in keeping inflation low and steady through good times and bad. So the bar for change should be high.

But the future looks different than the past. And much like 30 years ago, the world we face today requires us to consider bold action. For now, we must fully use the tools we have. And looking ahead, we must adapt our monetary policy frameworks to deliver on the mandates we’re committed to: full employment and price stability.

**Conclusion**

There’s no question that our world has changed tremendously in recent years. And these changes have created challenges that we’re still learning how to address. But we’re working from strong foundations. Foundations that the Reserve Bank of New Zealand helped lay down 30 years ago.

I look forward to figuring out where we go next with you.

Thank you.

---

15 Svensson (1999), Nessén and Vestin (2005), Bernanke, Kiley, and Roberts (2019), and Mertens and Williams (2019).
References


