

VFCI Business Cycle VARs for various VFCI series

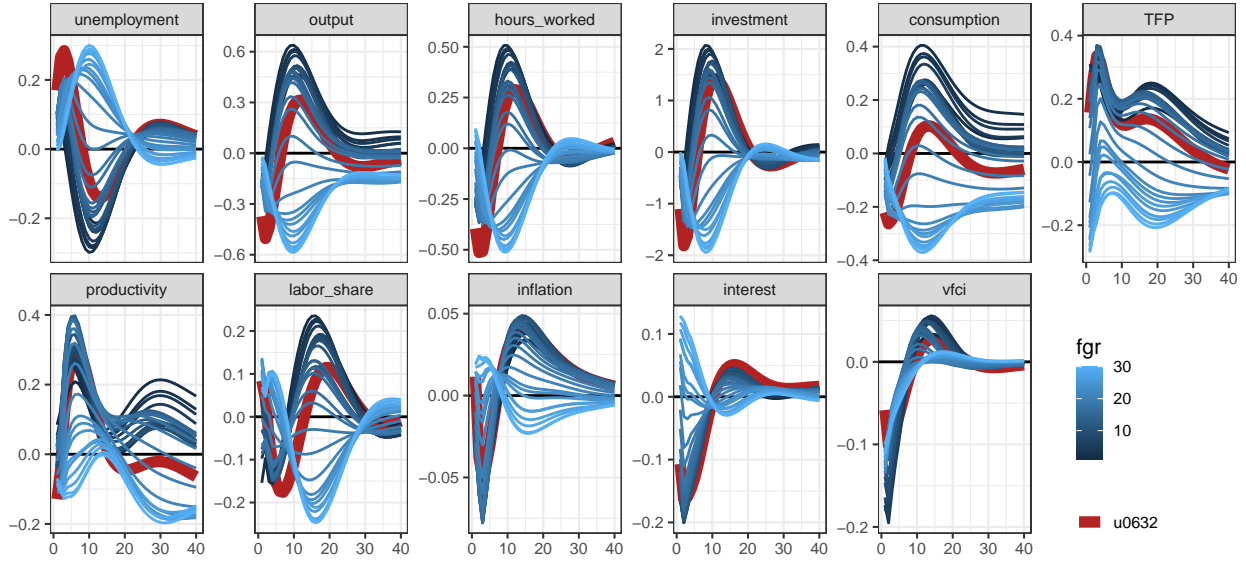


Figure 1: VFCI Target GDPC1, all forward growth rates

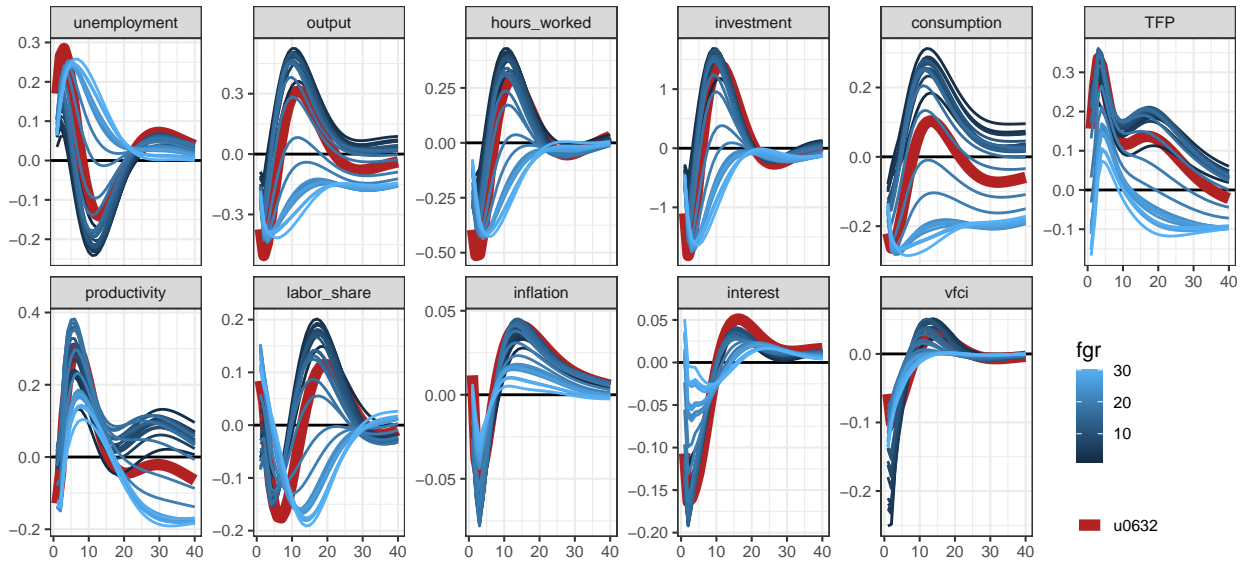


Figure 2: VFCI Target pcecc96, all forward growth rates

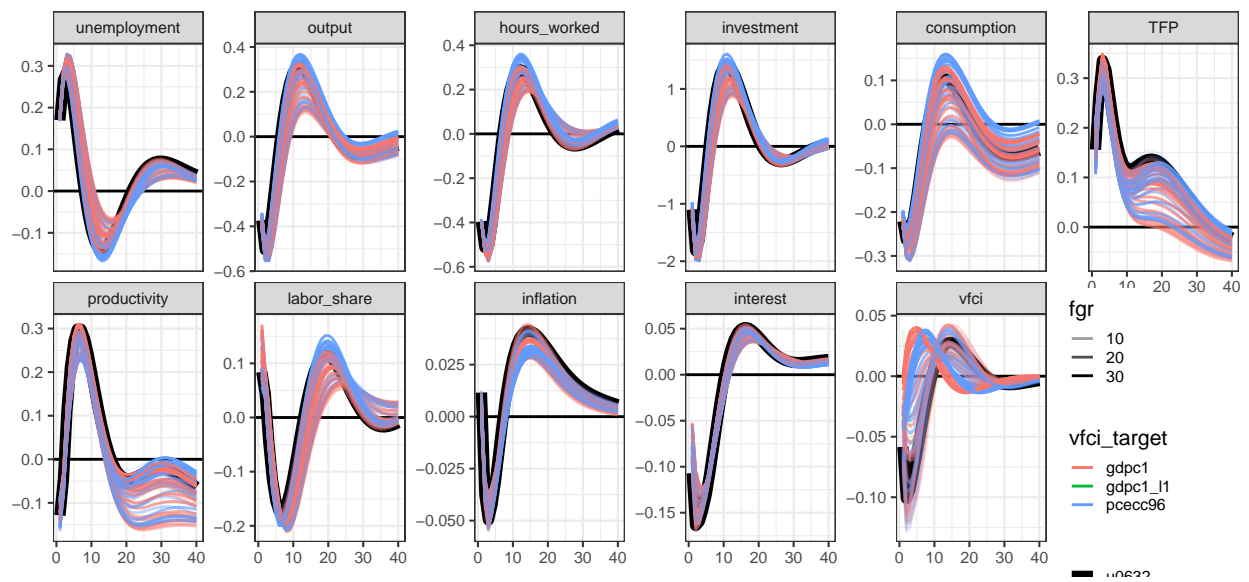


Figure 3: Unemployment0632 target, various vfci measures in VAR

Calculate Distance Metrics

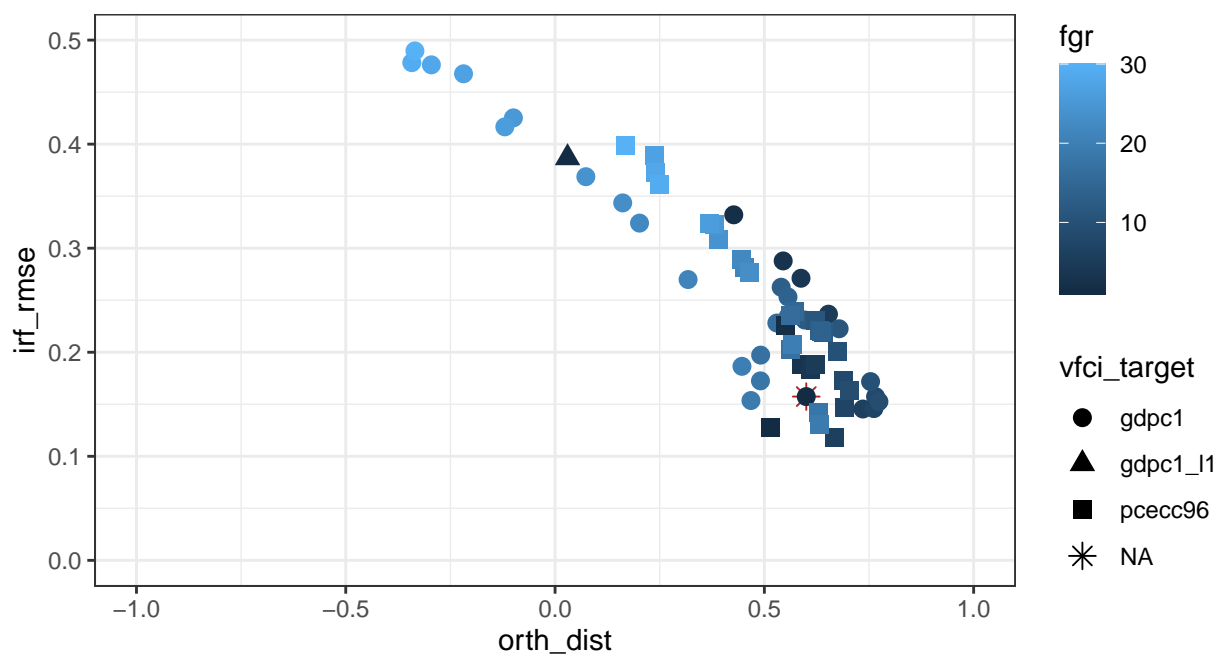


Figure 4: Correlation of ortho dist and IRF RMSE

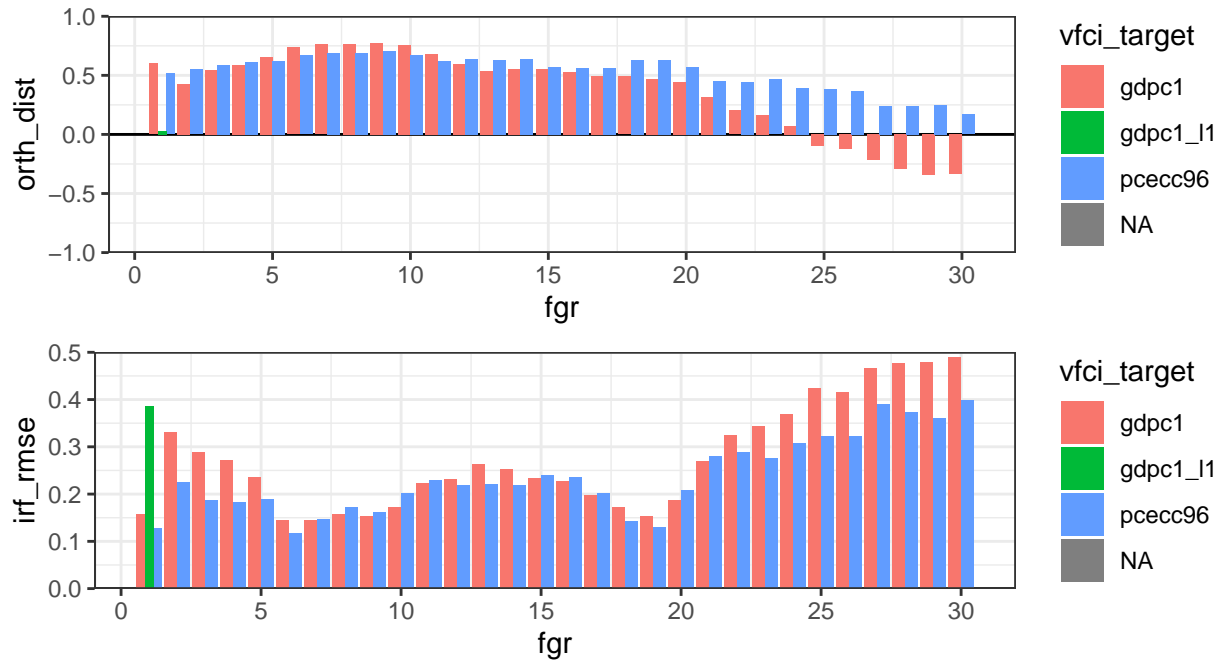


Figure 5: Orth distance and IRF RMSE across FGR

Show Best Matches

```
dist_metrics[, m_orth_dist := max(abs(orth_dist)), by = .(vfc_target)][abs(orth_dist) == m_orth_dist]
```

```
##          vfc_name  orth_dist  irf_rmse vfc_target fgr m_orth_dist
## 1:          vfc_i 0.60007019 0.1574060      <NA>  NA 0.60007019
## 2: vfc_i_fgr9gdpc1 0.77369135 0.1526292      gdpc1   9 0.77369135
## 3: vfc_i_fgr9pcecc96 0.70338073 0.1629193     pcecc96   9 0.70338073
## 4: vfc_i_fgr1gdpc1_l1 0.02978517 0.3868532    gdpc1_l1   1 0.02978517
```

```
dist_metrics[, m_irf_rmse := min(irf_rmse), by = .(vfc_target)][irf_rmse == m_irf_rmse]
```

```
##          vfc_name  orth_dist  irf_rmse vfc_target fgr m_orth_dist m_irf_rmse
## 1:          vfc_i 0.60007019 0.1574060      <NA>  NA 0.60007019 0.1574060
## 2: vfc_i_fgr6gdpc1 0.73533247 0.1454517      gdpc1   6 0.77369135 0.1454517
## 3: vfc_i_fgr6pcecc96 0.66865460 0.1181938     pcecc96   6 0.70338073 0.1181938
## 4: vfc_i_fgr1gdpc1_l1 0.02978517 0.3868532    gdpc1_l1   1 0.02978517 0.3868532
```

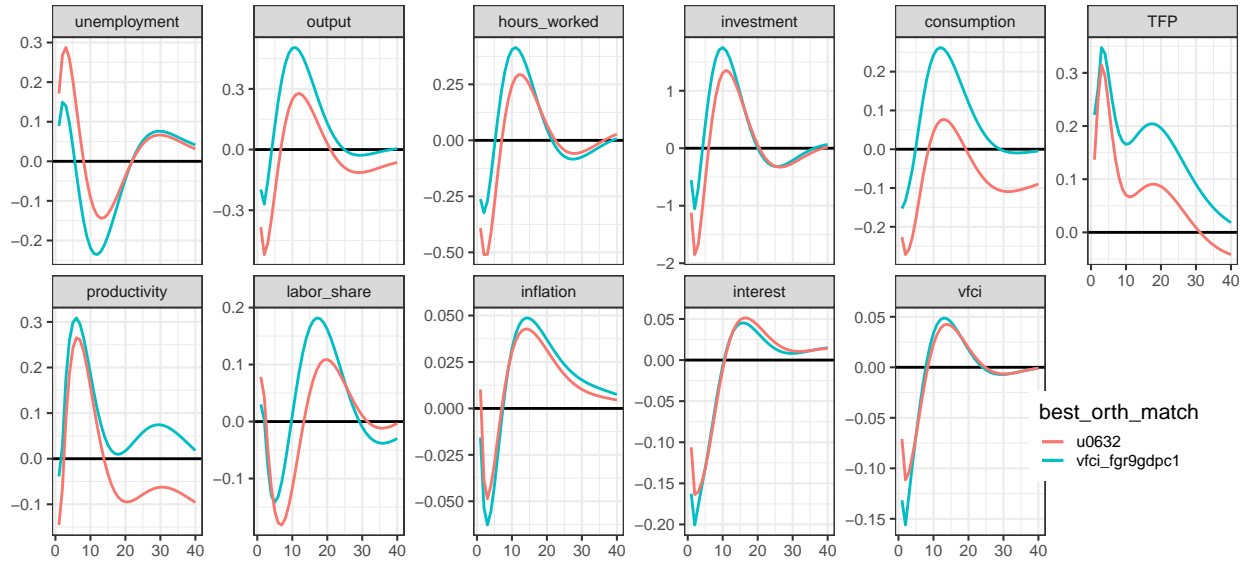


Figure 6: Best Orth Distance Match

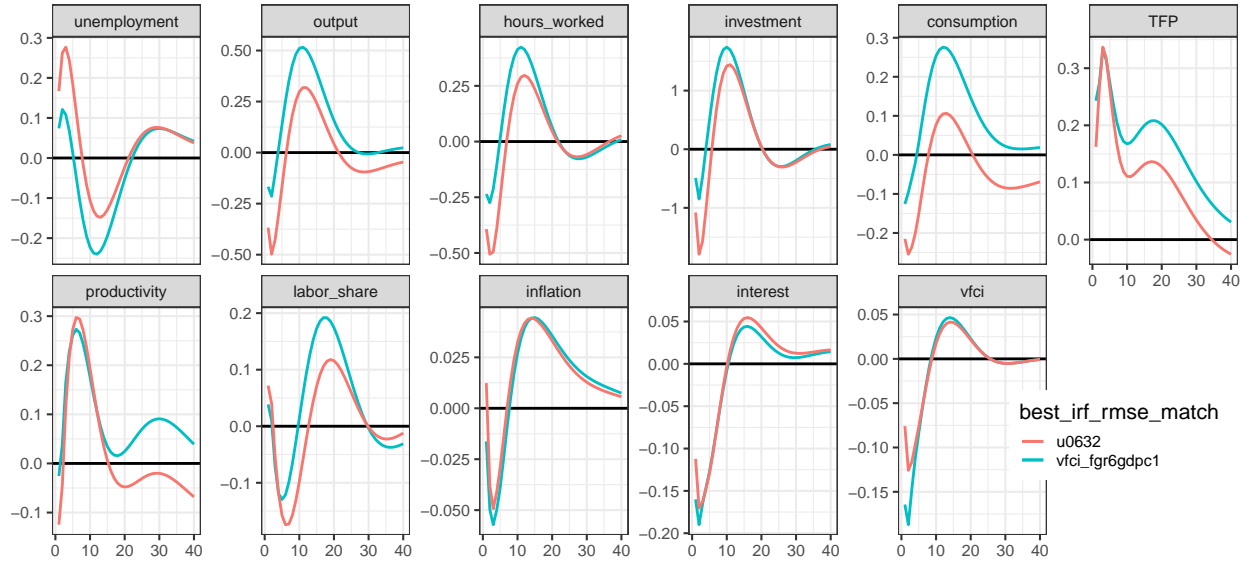


Figure 7: Best IRF RMSE Match

Plot showing VFCI calculate from 't' to 't+1', as opposed to the new forward indexes of 't+1' to 't+2'.

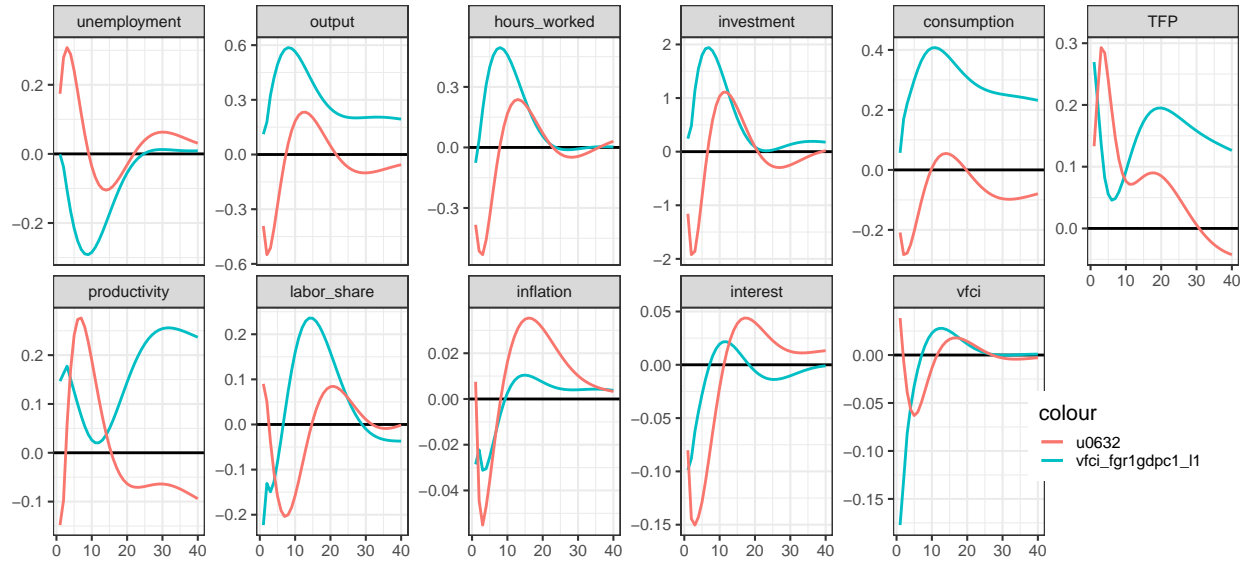


Figure 8: Best IRF RMSE Match