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beskrivelse](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENsYWVzIExpbmRob2xtAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTIAAJKSAAIAAAADOTIAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Opgave 1.2:

Link til webside med beskrivelse af API’ets returværdier:

https://confluence.govcloud.dk/pages/viewpage.action?pageId=26476616

"visibility" angives i meter

"wind\_max" opdateres hvert 10 minut

05272 er Brande

Opgave 1.3:

Link til forecast API:

<https://dmigw.govcloud.dk/v1/forecastdata/api>

API’et har pt 9 forskellige collections:

**wam\_dw, wam\_nsb, wam\_natlant, dkss\_idw, dkss\_if, dkss\_lb, dkss\_lf, dkss\_nsbs, dkss\_ws**

**Lille Bælt har kode: dkss\_lb**

**(**<https://dmigw.govcloud.dk/v1/forecastdata/collections/dkss_lb?api-key=e769a716-508c-4704-9fe1-9fd25f9f42c3>**)**

**Data typen der returneres fra API’et er JSON.**

**Opgave 1.4:**

**Steder hvor DMI’s API er brugt:**

<https://vejr.eu/pages/api-documentation>

<https://via.ritzau.dk/pressemeddelelse/cowi-designer-havneindlob-med-data-fra-dmi-som-solid-bund?publisherId=13559149&releaseId=13624252>

**Opgave 2.1:**

Et billede, der indeholder bord

Automatisk genereret beskrivelse

**Både forklaringsgrad (R^2) samt korrelation er højere for DI’s FTI end DST’s. Vi har dog ikke kunnet nå samme forklaringsgrad samt korrelation for perioden 2000 Q1 – 2016 Q2 dom i Baums artikel fra 2016.**

**Opgave 2.2:**

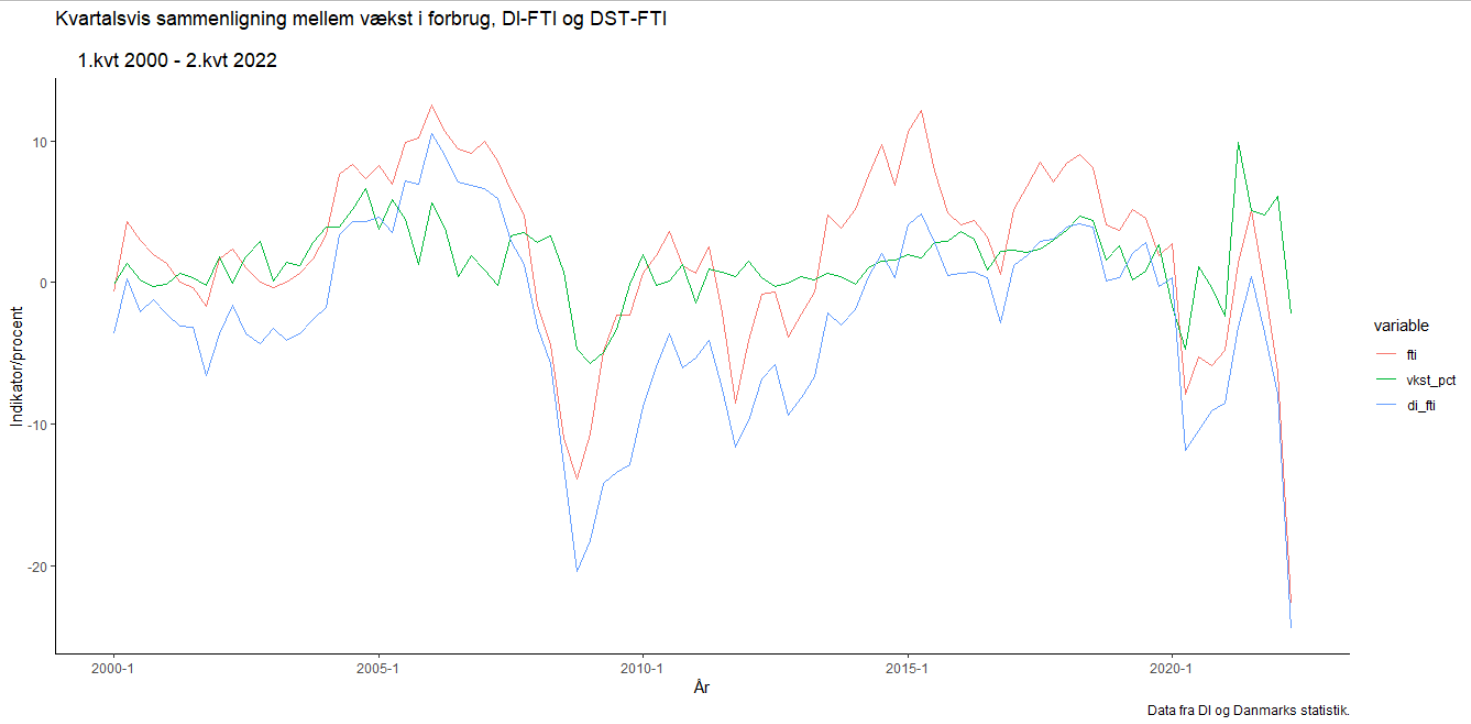
**Forecast for forbruget i 3.kvartal 2022 med brug af DI’s FTI indikator: -5.62%**

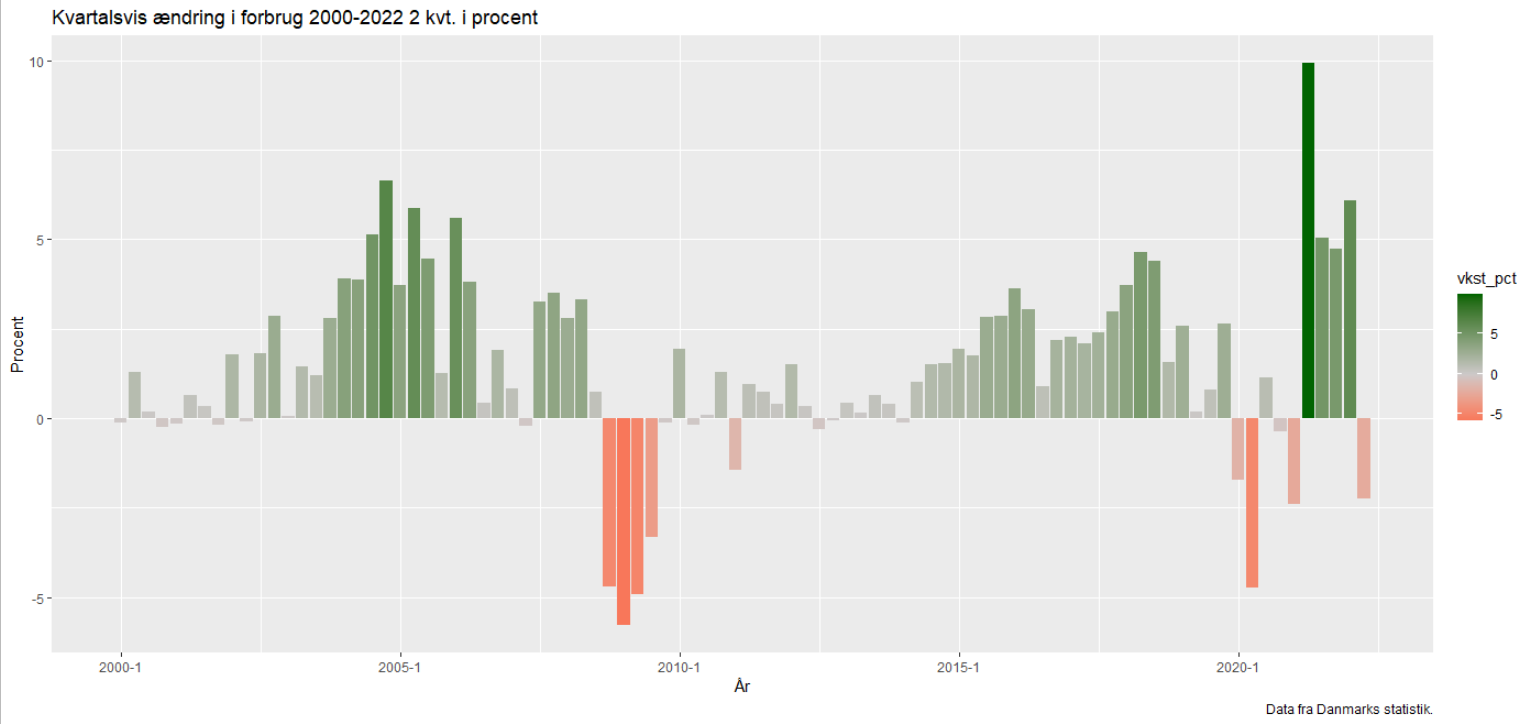
**Forecast for samme periode med DST’s FTI: -5.08%**

**Opgave 2.3:**

**De to indikatorer for forbrugertillid, DI samt DST, viser henholdsvis -32.4 og -27.6 for 3. Kvartal 2022. Disse værdier er udtalt lavere end de laveste værdier for perioden 2000 Q1 – 2022 Q2: -24.43 og -22.7 (begge 2022 Q2), hvor væksten faldt 2.2%. Den laveste vækst i perioden var under finanskrisen hvor væksten faldt med 5.8% i 2009 Q1 og indikatorerne viste hhv -18.3 og -10.7.**

**På denne baggrund mener vi er der er stor grund tl at frygte et markant fald i forbruget i både 3. og 4. kvartal i år.**





**Opgave 2.4:**

**DI:**

Et billede, der indeholder bord

Automatisk genereret beskrivelse

**DI’s prognose er fra 26 maj 2022, så sandsynligvis ikke opdateret med data fra 2.kvartal. Deres skøn er at forbruget vil stige 1.7%.**

**DK Nat.Bank:**

Et billede, der indeholder bord

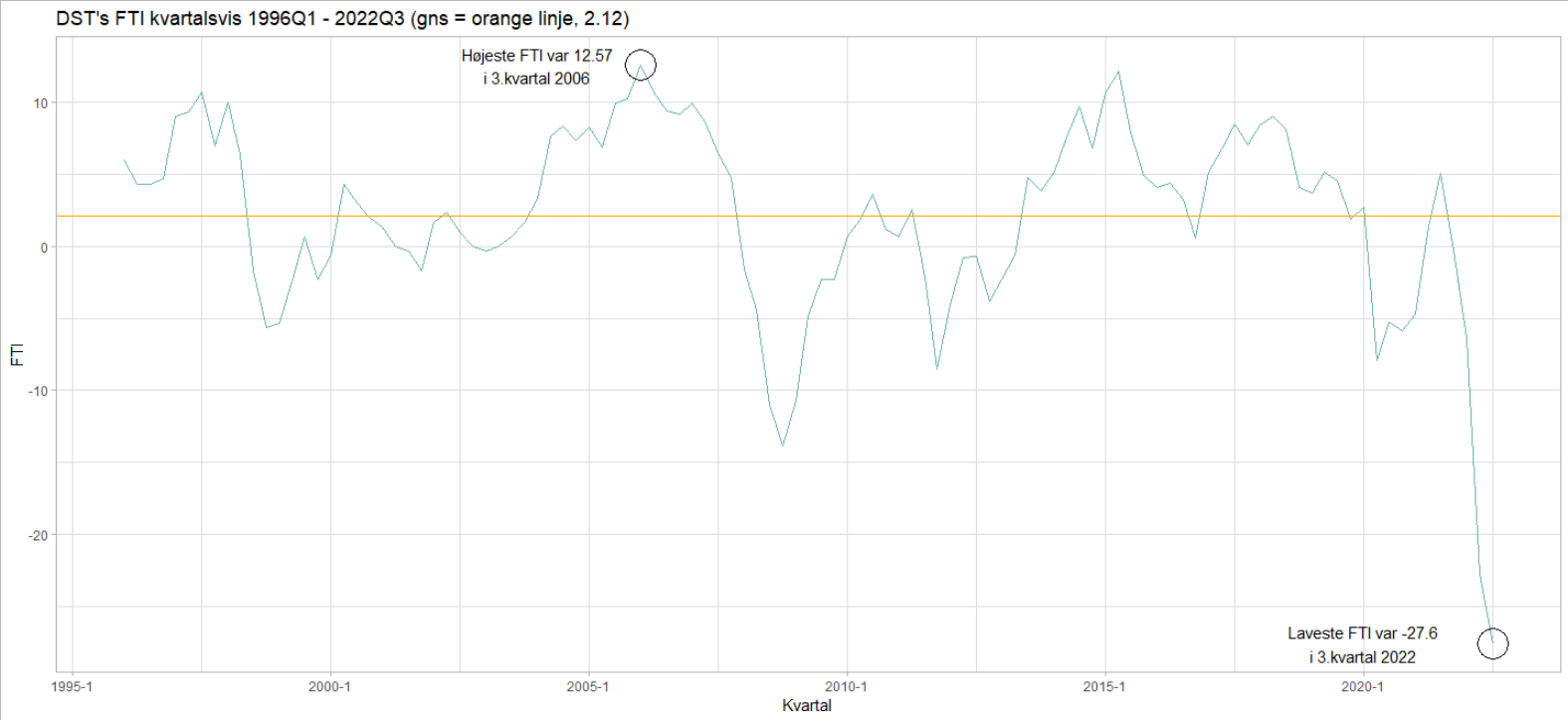
Automatisk genereret beskrivelse

**Nationalbankens prognose er fra 22.9.2022**

**På årsbasis skønner nationalbanken at det private forbrug korrigeret for inflation vil falde med 1 pct. i år.**

**Begge disse skøn harmonerer selvsagt dårligt med vores forecast, det skal dog tilføjes at DI’s analyse er fra maj i år. Desuden er begge organisationers skøn for hele året 2022, vort forecast af forbruget er for 3.kvartal baseret på DST’s forbrugertillidundersøgelse i samme kvartal.**

Opgave 3.1:



DOT-com boblens effekt ses i 1999-2000, efterfulgt af højkonkunkturen op til finanskrisen.Det store fald i 2007-2009 skyldes finanskrisensamt dens efterdønninger frem til 2012. Den lange højkonjunktur med stigende boligpriser samt lave renter og inflation ses tydeligt i perioden 2014-2020 hvorefter corona kortvarigt sender FTI skarpt lavere. Da de negative følger af corona bluver meget mindre end forventet, stiger FTI i 2021 men sendes til det laveste niveau siden 1996 pga krigen i Ukraine, stigende energipriser, renter og inflation.

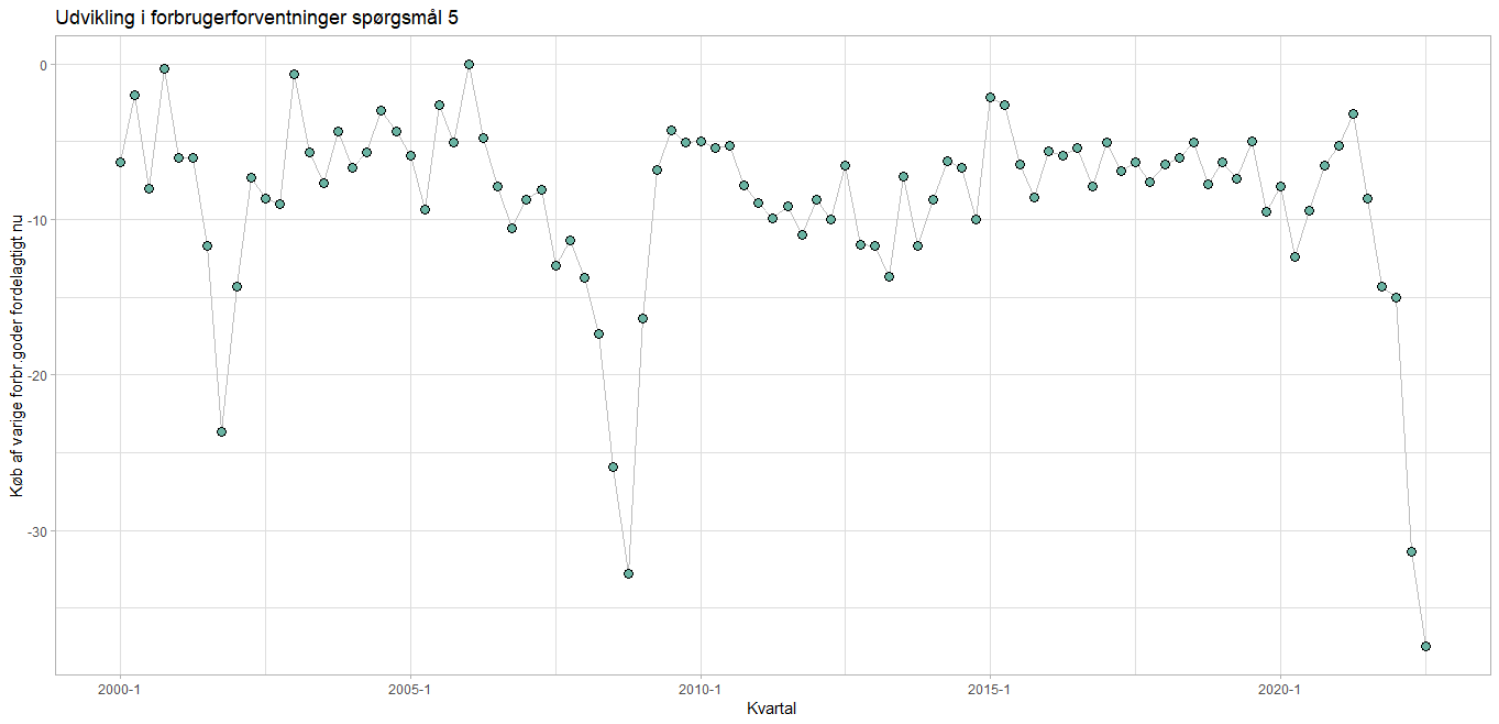
Opgave 3.2:

Spørgsmålet og svarmulighederne i DST’s forbruger undersøgelse, spørgsmål 5:

*” Set i lyset af den økonomiske situation, mener du, at det for øjeblikket er fordelagtigt at anskaffe større forbrugsgoder som fjernsyn, vaskemaskine eller lignende, eller er det bedre at vente? Fordelagtigt at købe nu 100, Hverken fordelagtigt eller ufordelagtigt at købe nu 0, Ufordelagtigt at købe nu, bedre at vente -100”*

Gennemsnittet for perioden 2000 Q1 – 2022 Q3 er: -8.81

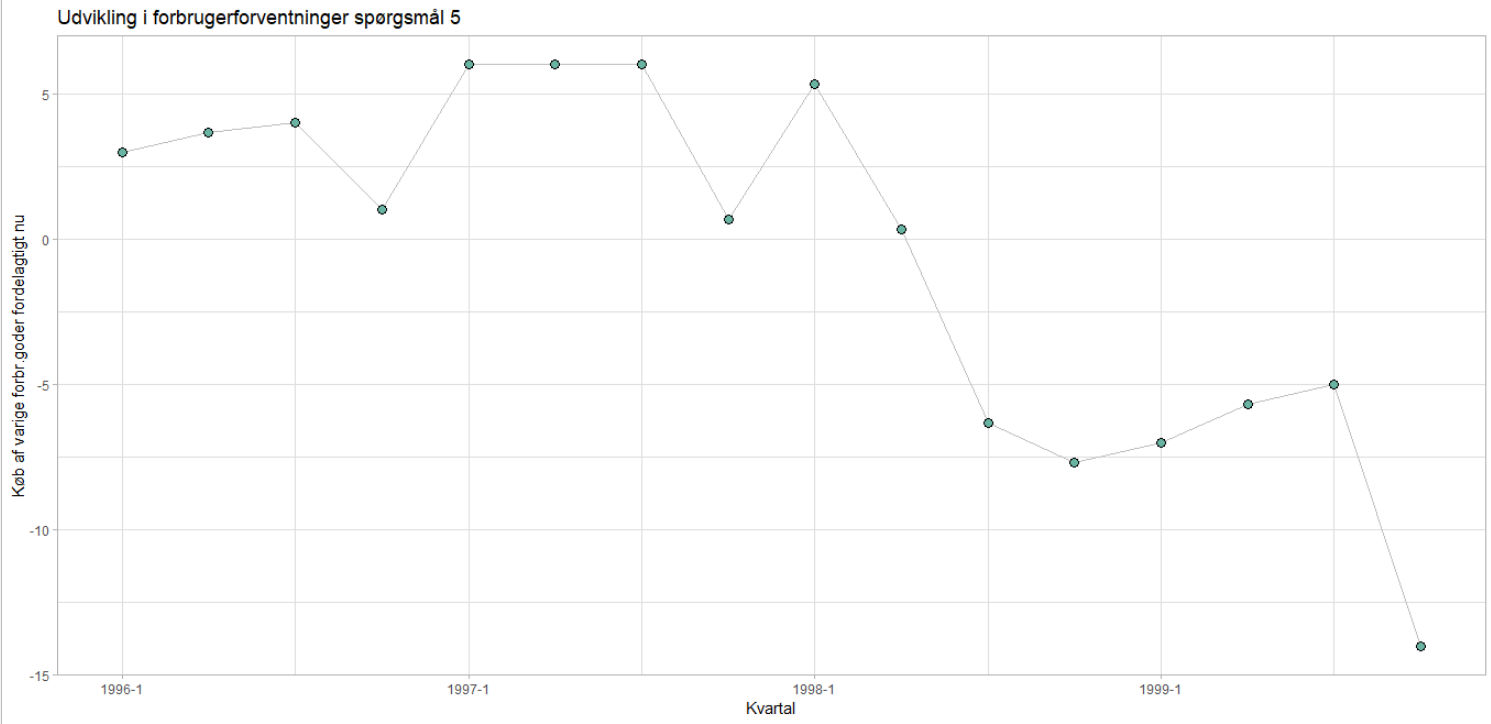
Udviklingen grafisk:



Det ses at ingen af observationerne er over 0, til trods for at svarmulighederne ligger i intervallet -100 - +100. Vores konklusion er at underspørgsmål 5 betragtet over en længere årrække, ikke indeholder selvstændig værdi. Spørgsmålet bidrager alene som en af 5 forskellige værdier ved beregning af den samlede forbrugertillids indikator.

Derudover ses det på grafen at der er en korrelation på 0.31 mellem forbrug og værdierne for underspørgsmål 5.

I perioden 1996 Q1 – 1999 Q4 har der dog været kvartaler med positiv værdi for underspørgsmål 5:



Opgave 3.3:

Fordelingen af forbruget i 2021:

