

# Sluttrapport

## Prosjektinformasjon og rapporteringsmål

### Prosjektinformasjon

<b>Prosjektnummer:</b>	336297
<b>Prosjekttittel:</b>	The IAAE 2023 Annual Conference at BI Norwegian Business School, 27-30 June 2023
<b>Program / Aktivitet:</b>	FINANSMARK
<b>Prosjektleder:</b>	Sucarrat, Genaro Daniel Weil Johnsen
<b>Prosjektansvarlig:</b>	Institutt for samfunnsøkonomi, STIFTELSEN HANDELSHØYSKOLEN BI
<b>Prosjektperiode:</b>	01.09.2022 - 31.08.2023

### Rapporteringsmål

- |   |                     |
|---|---------------------|
| 1. <b>Hovedside framdriftsrapport:</b> Ajourfør framdriftsrapport fram til prosjektslutt.   | <b>Utført</b>       |
| 2. <b>Sluttregnskap:</b> Gi et sammendrag av økonomien i prosjektet.  | <b>Utført</b>       |
| 3. <b>Virkninger og effekter:</b> Jeg er innforstått med at teksten i feltet for Virkninger og effekter vil bli offentlig tilgjengelig* | <b>Utført</b>       |
| 4. <b>Resultatrapport:</b> Legg ved resultatrapport   | <b>Utført</b>       |
| 5. <b>Særskilt rapportering:</b> Dersom det foreligger krav om særskilt rapportering, skal dette utføres.                               | <b>Ikke aktuelt</b> |
| 6. <b>Endelig datahåndteringsplan:</b> Er endelig datahåndteringsplan lastet opp?   | <b>Ikke aktuelt</b> |

## Sluttregnskap

### Faktisk kostnadsplan (Beløp i NOK 1000)

Konto	2023	2022	Totalsum
Personal- og indirekte kostnader	461	0	461
Innkjøp av FoU-tjenester	0	0	0
Utstyr	0	0	0
Andre driftskostnader	1 865	0	1 865
<b>Sum</b>	<b>2 326</b>	<b>0</b>	<b>2 326</b>

### Faktisk kostnadssted (Beløp i NOK 1000)

Konto	2023	2022	Totalsum
Næringsliv	0	0	0
Instituttsektor	0	0	0
UoH-sektor	2 231	0	2 231
Andre sektorer	0	0	0
Utlandet	95	0	95
<b>Sum</b>	<b>2 326</b>	<b>0</b>	<b>2 326</b>

### Faktisk finansieringsplan (Beløp i NOK 1000)

Konto	2023	2022	Totalsum
Forskningsrådet	400	0	400
Egenfinansiering	263	0	263
Offentlig finansiering	0	0	0
Privat finansiering	1 663	0	1 663
Internasjonale midler	0	0	0
Avvik	0	0	0
Avvik grunnlag	2 326	0	2 326
<b>Sum</b>	<b>2 326</b>	<b>0</b>	<b>2 326</b>

## Kommentar

Søknaden vår m/budsjett ble sendt til Finansmarkedsfondet før Russland invaderte Ukraina. Prisene har steget betraktelig på kostnadssiden siden invasjonen. De sterkt økte prisene, i tillegg til at konferansen endte opp med å ha betraktelig flere (ca. 200 flere) deltakere enn opprinnelig budsjettet, innebærer betraktelige avvik mellom opprinnelig budsjett og det endelige regnskap.

Både totalkostnadene og totalinntektene ble en del høyere enn opprinnelig budsjettet. Den eneste kostnadsposten som ble lavere enn opprinnelig budsjettet var hotellkostnader for hovedforedragsholderne ("keynote speakers"). Grunnene til dette var at Norges Bank finansierte én av foredragsholderne, og at to foredragsholdere var norske og dermed trengte færre overnattinger enn opprinnelig budsjettet. I tråd med avtale og korrespondanse med Finansmarkedsfondet, ble dermed "overskuddet" på

denne posten brukt til å finansiere de økte kostnadene på andre poster. Kostnader (egenfinansiert) knyttet til timebruk blant de ansatte ble også høyere enn budsjettet (dvs. BI økte sitt bidrag sammenlignet med opprinnelig budsjett).

## Virkninger og effekter

### Forventede virkninger og effekter - hentet fra søknaden

Financial markets participants face rapid technological change and a continuous increase in new data. An important effect of the IAAE annual conference is that it will help them tackle these challenges.

A second effect of the conference is that it will stimulate new cross-border collaboration among researchers. In particular, the conference will increase the quantity and quality of financial markets research in Norway and at BI specifically.

A third effect is that it will make it easier for Norwegian policymakers and businesses to attend the presentation of the latest research and innovations.

A fourth effect is that it will help BI further in attracting highly qualified students and faculty by showcasing BI's dedication to data analytic research in general and empirical financial markets research in particular. In recent years, the econ and finance departments have hired several econometricians, the department of data science was created and Bloomberg terminals have been acquired.

### Oppnådde og potensielle virkninger og effekter - basert på prosjektets resultater

## Resultatrapport

### Opplastet resultatrapport

**Originalfilnavn:** resultatrapport.pdf

**Filreferansenavn:** RESULTAT\_Sluttrapport11863559.pdf

### Melding til Norges forskningsråd

## Særskilt rapportering

### Kommentar

### Opplastet vedlegg

## Endelig datahåndteringsplan

### Opplastet datahåndteringsplan

## Framdriftsrapport

### Prosjektinformasjon og rapporteringsmål

#### Prosjektinformasjon

<b>Prosjektnummer:</b>	336297
<b>Prosjekttittel:</b>	The IAAE 2023 Annual Conference at BI Norwegian Business School, 27-30 June 2023
<b>Program / Aktivitet:</b>	FINANSMARK
<b>Prosjektleder:</b>	Sucarrat, Genaro Daniel Weil Johnsen
<b>Prosjektansvarlig:</b>	Institutt for samfunnsøkonomi, STIFTELSEN HANDELSHØYSKOLEN BI
<b>Prosjektperiode:</b>	01.09.2022 - 31.08.2023
<b>Rapporteringsperiode:</b>	07.10.2022 - 31.08.2023

#### Rapporteringsmål

- Populærvitenskapelig framstilling:** Jeg er innforstått med at teksten i feltene for Populærvitenskapelig framstilling vil bli offentlig tilgjengelig **Ja**
- Resultatinformasjon:** Er opplysninger om publisering gitt? **Nei**
- Resultatindikatorer:** Alle resultatdata som er framkommet i prosjektet skal rapporteres. Er rapportering foretatt? **Nei**
- Stipend:** Opplysninger om alle stipend må være fullstendige og korrekte. Har du oppdatert månedsverk og andre opplysninger for hver stipendiat? **Ja**
- Internasjonalt samarbeid:** Omfanget av internasjonalt samarbeid skal angis. Har det vært slikt samarbeid i rapporteringsperioden? **Nei**
- Særskilt rapportering:** Dersom det foreligger krav om særskilt rapportering i egen melding fra saksbehandler i Forskningsrådet skal dette utføres. Er særskilt rapportering utført? **Nei**

## Populærvitenskapelig framstilling

### Populærvitenskapelig framstilling (Norsk)

Formelt sett startet forberedelsene våre til å arrangere den årlige konferansen til International Association of Applied Econometrics (IAAE) i juni 2023 ved Handelshøyskolen BI den 1. september 2022. Forberedelsene går i henhold til planen. Framgangen vår kan følges på den nylig opprettede nettsiden til konferansen:

<https://www.bi.edu/about-bi/events/2023/june/iaae2023/>

### Populærvitenskapelig framstilling - Oppdatert (Norsk)

Fra 27. til 30. juni 2023 var Handelshøyskolen vertskap for den årlige forskningskonferansen til International Association of Applied Econometrics (IAAE). Den årlige IAAE konferansen er en ledende internasjonal møteplass for nyvinninger innen anvendelsen av økonometri for å belyse økonomiske, finansielle og andre relaterte spørsmål. Det var totalt 515 registrerte deltakere, og 129 plenums- og parallellsesjoner. Ca. 460 vitenskapelige arbeider ble presentert i løpet av de fire dagene konferansen varte. Av de totalt 129 plenums- og parallellsesjonene, så hadde minst 36 av dem (ca. 141 arbeider) en direkte kobling til finansielle markeder (f.eks. valutakurser, aksjemarkeder, volatilitet), monetærpolitikk (f.eks. inflasjon, sentralbanker) og finansiell økonometri. I tillegg dekket mange av sesjonene emner med en indirekte relevans for finansielle markeder (f.eks. makro, business cycles, prognosemaking, panel- og tidsseriemetoder, instrumentellvariabel metoder). Hovedforedragsholderne ("keynote speakers") holdt et meget høyt nivå, og besto bl.a. av Lars Peter Hansen (Nobels minnepris i økonomi 2013) og Tim Bollerslev (oppfinner av den finansielle volatilitetsmodellen GARCH(1,1)). Mer detaljer er inneholdt på nettsiden til konferansen:

<https://www.bi.edu/about-bi/events/2023/june/iaae2023/>

### Populærvitenskapelig framstilling (Engelsk)

Formally our preparations to host the annual conference of the International Association of Applied Econometrics (IAAE) in June 2023 at Handelshøyskolen BI started 1 September 2022. Preparations are going according to plan. Our progress can be followed at the recently created website of the conference:

<https://www.bi.edu/about-bi/events/2023/june/iaae2023/>

### Populærvitenskapelig framstilling - Oppdatert (Engelsk)

From 27 to 30 June 2023, BI Norwegian Business School hosted the annual research conference of the International Association of Applied Econometrics (IAAE). The annual IAAE conference is a leading international venue for the presentation of innovations in the applications of econometrics in the study of economic, financial and related questions. There was a total of 515 registered participants, and 129 plenary and parallel sessions. About 460 scientific contributions were presented during the four days of the conference. Out of the 129 plenary and parallel sessions, at least 36 of them (about 141 works) had a direct connection to financial markets (e.g. exchange rates, stock markets, volatility), monetary policy (e.g. inflation, central banking) and financial econometrics. Additionally, many sessions covered topics with an indirect connection to financial markets research (e.g. macro uncertainty, business cycles, forecasting, panel and time series methods, instrumental variables). The keynote speakers were distinguished scholars within their field, and consisted amongst others of Lars Peter Hansen (Nobel's memorial prize in economics 2013) and Tim Bollerslev (the inventor of the financial volatility model GARCH(1,1)). More details can be found on the webpage of the conference:

<https://www.bi.edu/about-bi/events/2023/june/iaae2023/>

### Melding til Norges forskningsråd

Ikke relevant/not relevant.

## Resulatinformasjon

## Resultatindikatorer

### Stipend

Stipender finansiert av prosjektet

### Internasjonalt samarbeid

Internasjonalt samarbeid finansiert av prosjektet (i NOK 1000)

Beløp i NOK 1000

Land	2022	2023
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## Særskilt rapportering

Kommentar

Opplastet vedlegg

# Report of results

## Background and main goals

Econometrics provides the methodological foundations of empirical economic research, empirical financial research (cf. “Financial Econometrics”) and empirical research in related areas (cf. “Climate Econometrics”). The main goal of the IAAE annual conference is to bring together leading researchers and industry participants to discuss all aspects of theoretical and applied econometrics. Financial markets research and industry play an important part in the conference.

Societies in general and financial markets in particular are faced with frequent technological advances and a continuous increase in the access to new data. The first subgoal of the conference is to provide a leading international venue for the presentation of new research that can help decision makers, both public and private, to address these challenges.

A second subgoal of the conference is to make it easier for Norwegian researchers to present and discuss their work with top international scholars, and to make it easier for Norwegian policymakers and businesses to attend the presentation of the latest research and innovations.

A third subgoal is to showcase BI's dedication to data analytic research in general and financial markets research in particular.

## Results

The main results achieved was the organisation of the four-day conference from 27 June 2023 to 30 June 2023:

- A total of 515 registered participants attended the conference, from all continents of the world (Africa, America, Asia, Australia, Europe). About 80% of the participants were from academia, and about 20% from industry
- A total of about 460 scientific contributions were presented across 129 plenary and parallel sessions
- Out of the 129 sessions, at least 36 of them (about 141 scientific contributions) had a direct connection to financial markets (e.g. exchange rates, stock markets, volatility), monetary policy (e.g. inflation, central banking) and financial econometrics. In addition, many sessions covered topics with an indirect connection to financial markets research (e.g. macro uncertainty, business cycles, forecasting, panel and time series methods, instrumental variables methods).
- Six keynote speeches were given, one plenary discussion was arranged and a special panel discussion on high-dimensional forecasting was organised
- PhD students were offered a reduced registration rate, and a total of 33 travel grants - 100 USD to European students, 250 USD to non-European students – were awarded on a competitive basis
- Three evening social events were organised: A welcome reception in Oslo City Hall (“Rådhuset”) on day 1, a conference dinner on day 2 and a boat trip on the Oslo fjord on day 3. Social events are very important to facilitate networking, and are therefore an important and integral part of the conference.

The full set of details of the conference program is available on the webpage of the conference (<https://www.bi.edu/about-bi/events/2023/june/iaae2023>), and in the HTML-version of the programme (<https://editorialexpress.com/conference/IAAE2023/program/IAAE2023.html>). Here,



we only give a brief summary:

Tuesday 27 June:

08:30 Registration, coffee

09:45-10:45 IAAE keynote: Tim Bollerslev (Duke University): "Granular Volatilities, Betas and Functional Risk-Return Tradeoffs"

11:00-12:45 Parallel sessions

12:45-14:00 Lunch

14:00-15:45 Parallel sessions

15:45-16:15 Coffee

16:45-17:15 Panel session: Hashem Pesaran "High dimensional forecasting with known knowns and known unknowns"

17:15-18:15 Keynote: Magne Mogstad (University of Chicago)

18:45-21:00 Welcome reception at Oslo City Hall ('Rådhuset')

Wednesday 28 June:

08:30-09:20 JAE Keynote: Lars Peter Hansen (University of Chicago): "Risk, Ambiguity, and Misspecification: Decision Theory, Robust Control, and Statistics"

09:20-09:45 JAE Plenary discussants: Marco del Negro (Federal Reserve Bank of New York) and Mark Watson (Princeton University)

09:45-10:15 Coffee

10:15-12:00 Parallel sessions

12:00-13:15 Lunch

13:15-15:00 Parallel sessions

15:00-15:30 Coffee

15:30-17:15 Parallel sessions

17:15-18:15 IAAE members' meeting

19:00 Conference dinner at Oslo Kongressenter

Thursday 29 June:

08:45-09:45 Keynote: Ana Maria Herrera (University of Kentucky): "Nonlinear Impulse Response Functions"

09:45-10:15 Coffee

10:15-12:00 Parallel sessions

12:00-13:15 Lunch

13:15-15:00 Parallel sessions

15:00-15:30 Coffee

15:30-17:15 Parallel sessions

17:20-18:20 Keynote: Todd Clark (Federal Reserve Bank of Cleveland): "Shadow-Rate VARs"

19:00-22:00 Evening boat trip on the Oslo fjord

Friday 30 June:

08:45-09:45 Keynote: Hilde C. Bjørnland (BI Norwegian Business School): "Structural Change and Second Round Effects: Energy and the Macroeconomy"

09:45-10:15 Coffee

10:45-12:00 Parallel sessions

## **Assessment of implementation and use of resources**

The local organisers faced a number of challenges that had to be dealt with. First, the war against Ukraine led to an unexpected and substantial rise in all costs compared to our original budget (we submitted our application to Finansmarkedsfondet before the war started). Second, we had a record number of paper submissions (about 1200), which resulted in a higher than usual number of participants (515 participants). Naturally, the higher than expected number of participants increased our logistical challenges. Third, the revenues of the conference (that is, the registration fees) were in USD, whereas our costs were in NOK. This created a large potential exchange rate risk.

To handle these challenges, and to maintain the registration and dinner fees low and democratic, we implemented several measures. First, we contacted the Norges Bank and asked if they were willing to pay part of the costs of our keynote speakers. They said “yes”, and Finansmarkedsfondet agreed that we could use part of the money for keynote speakers to finance the increased organisation and lunch/coffee costs. Second, to reduce our costs, and also to reduce our logistical challenges, we applied to Oslo City Hall (“Rådhuset”) to host our welcome reception. Our application was successful, and simplified our logistical challenges substantially. Third, we contacted the IAAE. In normal circumstances, the IAAE transfers the money they receive for the registration fees from the US to the host *after* the conference. To reduce exchange rate risk and planning uncertainty, and to exploit an unusually beneficial exchange rate (a strong US dollar), we convinced the IAAE to transfer the money to us before the conference took place. This reduced our cost-risks and planning uncertainty substantially, and enabled us to maintain registration and dinner fees low and democratic.

In summary, we believe we managed to handle the financial and logistical challenges adequately to produce a successful conference. This was reflected in the feedback from the participants, and also in the feedback from the IAAE directors. The funds from Finansmarkedsfondet were crucial in the successful organisation of the conference, since they provided the financial base necessary at an early stage. The funds from Finansmarkedsfondet were used to finance the costs of the keynote speakers, part of the costs associated with the organisation of the conference, and part of the costs for coffee breaks and lunches.

## **International presence**

While BI hosted the conference in Oslo, the organisation behind it, the IAAE, is truly international. The scientific committee was made up of scholars from all over the world, and the conference participants flew in from all continents (Africa, Asia, Australia, America and Europe) to attend.

## **Added value of project**

There are several expected beneficial effects of the conference. First, numerous papers addressed, directly or indirectly, the challenges of technological change and the continuous increase in new data. The innovations of these works may help financial market participants to handle the challenges. This is in part documented by the fact that many conference participants work for the industry (about 20%), and by the fact that several companies (for example Amazon) was present and actively trying to hire people at the conference.

A second added value of the conference are the intra- and inter-border collaborations that are likely to follow as a result of the conference. The large number of participants and quality papers, the high quality of the keynote speakers, together with the social events (coffees, lunches, evening events), all contributed to this. This is also the case for BI, since both young (PhD) and established BI researchers from three academic departments (Data Science, Economics, Finance) attended the

conference.

We were not very successful in attracting Norwegian policymakers and businesses to attend the conference. We are a little bit puzzled by this. One hypothesis is that the timing of the conference was not optimal, since a common feedback we received from potential participants was that Norwegians are usually on summer holidays during the period 27-30 June.