

To the Board of the Nordic Cancer union
From Ragnheiður Haraldsdóttir, chairman

Reykjavik, February 8th 2016

Damvad analytics has offered the NCU its services (classified here as a strategic project) by answering e.g. the following question: *Do we really know if and to what extent that Nordic cancer researchers collaborate and how well does they perform scientifically when they do collaborate?*

Thorunn Rafnar, chairman of the scientific committee, has obtained the opinion of two members of the committee.

Their opinion and Thorunn's is that NCU should not finance this kind of an analyses, as

- "researchers applying for the NCU funds are as good to "identify research areas where collaboration between Nordic cancer researcher generate high quality output" as a consulting firm."
- "but I do not know who might be the best to perform such a job. Also, these kind of analyses maybe already have been done?"

It is recommended here that the NCU declines this offer.

A handwritten signature in blue ink, which appears to read 'Ragnheiður'.

Dear Elisabeth Støve and Ragnheiður Haraldsdóttir

My reason to contact you as representatives of the Nordic Cancer Union is that the Danish news magazine "Dagens Medicin" late last year published a debate article by the directors of the Danish, Norwegian and Swedish Cancer Associations. The focus for the discussion paper was the unexploited potential for Scandinavian researcher and clinical doctors to collaborate on areas related to cancer. The question is does we really know if and to what extent that Nordic cancer researchers collaborate and how well does they perform scientifically when they do collaborate?

We at DAMVAD Analytics (www.damvad.com) could provide the Nordic Cancer Union with such insight and a comprehensive picture of the current trends in cancer research for collaboration and research performance. In the recent years DAMVAD Analytics have made a number of studies on research performance and collaboration between public and private organizations in the Nordic region. Among our client you will find the Danish heart Foundation, the Novo Nordisk Foundation, The Nordic Council of Ministers and the Swedish Knowledge Foundation.

The suggested analysis of research performance and collaboration patterns in Nordic cancer research could be investigated along the following six dimensions:

- Scientific productivity (Volume and trends in use of publication channels)
- Scientific quality (measured by journal ranking)
- Scientific impact (measured by normalised mean citation Score and share of publications in top journals)
- The degree of interdisciplinarity
- National and Nordic co-publication (collaborations among the Nordic Countries)
- Internationalization (collaborations outside the Nordic Countries)

Based on the results from an analysis of this kind, we will be able to identify research areas where collaboration between Nordic cancer researcher generate high quality output. Further the analysis will contribute with insight that could underline the importance of Nordic Cancer Union by comparing research output financed by the Cancer Union with output from other sources.

I hope, an analysis like the one outlined above would be of interest to you and that we could have an informal talk about the potential for such a project.

Best regards,

Rasmus Lund Jensen
Principal Consultant, M.Sc.
T: +45 4082 4356
E: rlj@damvad.com
W: damvad.com

DAMVAD
ANALYTICS

Havnegade 39
DK - 1058 København K
Denmark

Dear Ragnheiður,

Thanks you, for your quick respond.

The cost of an analysis like the one described below would be in the range of €35.000,- to €45.000,- excl. VAT. The final price depends on the level of detail and number of indicators you will need in your work and the amount of data needed to be handled in order to conduct the assessment.

I'll be available for a conference call whenever it will suit you and the process. But please feel free to contact me if you have any questions. In any case, I'll give you a call in a week or two to catch up on the process.

Best regards,
Rasmus V. Lund Jensen

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Havnegade 39
DK - 1058 København K
Denmark

We are indeed in the process of evaluating your proposal. I have asked the chairman of the scientific committee to consider the idea and eventually to get the view of the scientific committee on this. We will wait for their response. Can you send me some information on the costs this would incur? Once I have this information, a conference call could indeed be very helpful.

Best wishes,
Ragnheiður

From: Rasmus V. Lund Jensen [<mailto:rlj@damvad.com>]
Sent: 25 January 2016 16:37
To: Ragnheidur Haraldsdóttir.
Cc: forskningsadministrasjon@kreftforeningen.no; elisabeth.stove@kreftforeningen.no
Subject: SV: Research Evaluation - Nordic Cancer Union grants

Dear Elisabeth Støve and Ragnheiður Haraldsdóttir,

Almost two weeks ago I sent you the email below. I was wondering if you have had the time read it and if we could arrange a short conference call. I just want to give short introduction to the idea and get your feedback.

Please feel free to contact me if you have any questions. In any case, I'll give you a call later this week to get you feedback on the project proposal.

Best Regards,

Rasmus Lund Jensen
Principal Consultant, M.Sc.
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E: rlj@damvad.com
W: damvad.com

DAMVAD
ANALYTICS

Havnegade 39
DK - 1058 København K
Denmark

Fra: Rasmus V. Lund Jensen
Sendt: 12. januar 2016 09:23
Til: 'ragnhara@krabb.is' <ragnhara@krabb.is>
Cc: 'forskningsadministrasjon@kreftforeningen.no' <forskningsadministrasjon@kreftforeningen.no>; 'elisabeth.stove@kreftforeningen.no' <elisabeth.stove@kreftforeningen.no>
Emne: VS: Research Evaluation - Nordic Cancer Union grants

Dear Elisabeth Støve and Ragnheiður Haraldsdóttir

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Ragnheidur Haraldsdóttir.

From: Rasmus V. Lund Jensen <rlj@damvad.com>
Sent: 12 February 2016 13:33
To: Ragnheidur Haraldsdóttir.
Subject: SV: Research Evaluation - Nordic Cancer Union grants
Attachments: Nordic Cancer Research - A project proposal.pdf

Dear Ragnheiður,

Thank you for taking the time to discuss my initial project proposal yesterday. It was very helpful to get a better understanding of our organization.
Based on our talk I have put together the attached project proposal. The idea is centered on measuring the outcome of your investment in Nordic research collaboration.

Please feel free to contact me if you have any questions or will need more information of any kind in relation to the project. In any case, I'll give you a call later next week to get your feedback on the project idea.

And one last thing, could I ask you to confirm that this email with the attachment have been received in good order?

Best Regards,
Rasmus

Rasmus Lund Jensen
Principal Consultant, M.Sc.
T: +45 4082 4356
E: rlj@damvad.com
W: damvad.com



Havnegade 39
DK - 1058 København K
Denmark

Fra: Ragnheidur Haraldsdóttir. [<mailto:ragnhara@krabb.is>]
Sendt: 9. februar 2016 16:45
Til: Rasmus V. Lund Jensen <rlj@damvad.com>
Emne: RE: Research Evaluation - Nordic Cancer Union grants

Góðan daginn.

I will not be in the office tomorrow, but we can set up a tele-meeting on Thursday, if that suits you.
How would nine at my time sound?
Ragnheiður

From: Rasmus V. Lund Jensen [<mailto:rlj@damvad.com>]
Sent: 09 February 2016 15:22
To: Ragnheidur Haraldsdóttir.
Subject: VS: Research Evaluation - Nordic Cancer Union grants

Dear Ragnheiður,

I had tried to call you earlier today with regards to the mail below.
Will you be available tomorrow for a short talk?

Best regards,
Rasmus V. Lund Jensen

Fra: Rasmus V. Lund Jensen
Sendt: 26. januar 2016 09:10
Til: 'Ragnheidur Haraldsdóttir.' <ragnhara@krabb.is>
Cc: forskningsadministrasjon@kreftforeningen.no; Kristin Wold Guldvog
<Kristin.Wold.Guldvog@kreftforeningen.no>; Thorunn.Rafnar@decode.is
Emne: SV: Research Evaluation - Nordic Cancer Union grants

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Best regards,
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ANALYTICS

Havnegade 39
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Denmark

Fra: Ragnheidur Haraldsdóttir. [<mailto:ragnhara@krabb.is>]
Sendt: 25. januar 2016 17:53
Til: Rasmus V. Lund Jensen <rlj@damvad.com>
Cc: forskningsadministrasjon@kreftforeningen.no; Kristin Wold Guldvog
<Kristin.Wold.Guldvog@kreftforeningen.no>; Thorunn.Rafnar@decode.is
Emne: RE: Research Evaluation - Nordic Cancer Union grants

Góðan dag, Rasmus Jensen.

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Denmark

Ingen virus fundet i denne meddelelse.

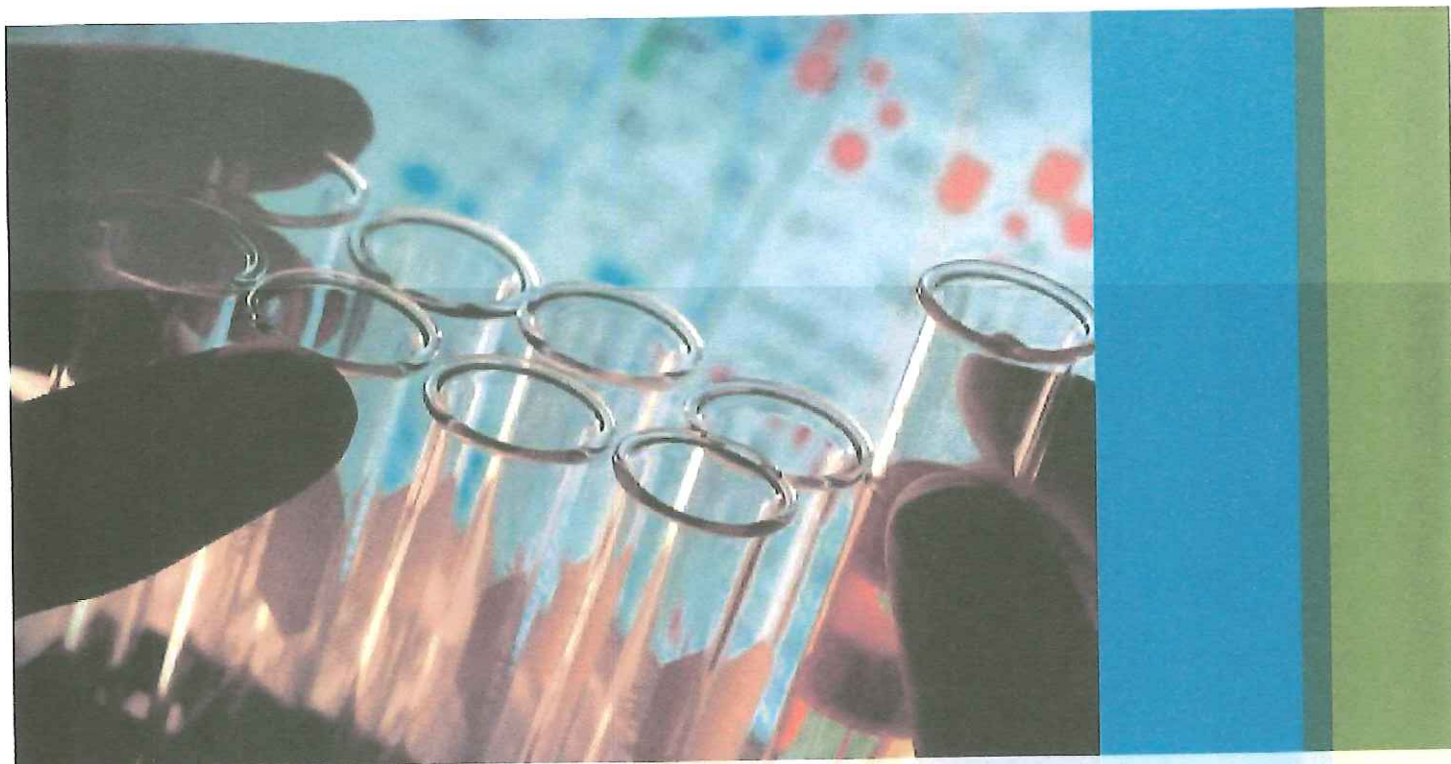
Kontrolleret af AVG - www.avg.com

Version: 2016.0.7357 / Virusdatabase: 4522/11483 - Udgivelsesdato: 25-01-2016

Ingen virus fundet i denne meddelelse.

Kontrolleret af AVG - www.avg.com

Version: 2016.0.7357 / Virusdatabase: 4522/11579 - Udgivelsesdato: 08-02-2016



Measuring Nordic Cancer Research

A project proposal to the Nordic Cancer Union

12.02.2016

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ANALYTICS

DAMVAD Analytics
Havnegade 39
DK-1050 København K
info@damvad.com
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Introduction



DAMVAD Analytics hereby has the pleasure of submitting our proposal to the Nordic Cancer Union (NCU) concerning an evaluation of the research performance from projects awarded with funding from NCU.

As the Nordic Cancer Union has a explicit focus on enhancing the Nordic collaboration to advance the prevention and treatment of cancer it is natural for the NCU to aims of:

- Improved knowledge and understanding of cancer
- More effective prevention of cancer
- Better results from cancer treatment and rehabilitation
- Enhanced application of cancer treatment in the Nordic countries

To achieve this, NCU, between 2008 and 2015 has granted 93 project a total of € 6.0 million.

The question is, does we really know if this kind of research funding deliver the expected in terms of Nordic and international collaboration, research volume and quality.

In the present project DAMVAD Analytics provide the Nordic Cancer Union with such insight as well as a comprehensive picture of the current trends in cancer research for collaboration and research performance.

DAMVAD Analytics have assessed, evaluated, and counselled for research funding organisations in several European countries and we understand the role of a Nordic organisation and its needs. Especially with regards to documenting the benefits of the Nordic added value to stakeholders.

We have put together a project with a bibliometric focus, that analyze the research output of the NCU grants along a number of dimensions. The aim of the analysis is to use publication data and case studies to shed light on key issues of high value for the NCU, notably

- the volume, quality and impact of research from the awarded grants, the interdisciplinarity of the conducted research, the research collaboration (i.e. Nordic, international as well as collaboration with industry),
- the benefits of the Nordic added value, is analysed through a number of project cases, characterized by high degree of Nordic collaboration and high degree of international scientific impact.

DAMVAD's project has the following benefits for NCU;

- Identification of research areas where collaboration between Nordic cancer researcher generate high quality output,
- Insight on the importance of Nordic Cancer Union by comparing research output financed by the NCU with output from other sources.

Case: Top-level Research Initiative features in Research Europe

[Research Europe](#) cites DAMVADs recent [report](#) on the evaluation of the Top-Level Research Initiative: *"the quality of the programme's outputs was 'well above average' compared with other Nordic research in the same areas"*. One of the key findings is that a continuation of the initiative was not accomplished as the program was based on a complicated and inefficient structure, and was met by waning political will and concerns over the sharing of national resources.

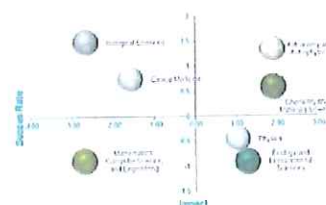
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The Bibliometric analysis



- The suggested analysis of research performance and collaboration patterns in Nordic cancer research could be investigated along the following six dimensions:
 - Scientific productivity** given by the volume and trends in use of different publication channels e.g. Journal articles, review article, conference proceedings, etc.
 - Scientific quality** measured by journal ranking. The quality of research is given by the prestige of the journals in which the publication appears.
 - Scientific Impact** measured by normalized mean citation Score and share of publications in top journals. The normalized mean citation Score Indicator will show the impact of NCU funded research relative to an international benchmark e.g. OECD. The top journal indicator will show the share NCU funded research among the most-cited publications in top 10 pct., 5 pct. and 1 pct. of all publication with in the research area.
 - The degree of interdisciplinarity** measured by the In the recent years there has been increased focus on interdisciplinarity as a way to promote cross-cutting, problem-oriented research. The indicator measure the degree to which the research are published in journals with multiple subject themes like Oncology, Drug Discovery, Genetics, Surgery, etc.
 - National and Nordic co-publication** (collaborations among the Nordic Countries). Measured by the share of publications that are co-authored with researcher in and among the Nordic countries relative to the total research output per grant and funding round.
 - Internationalization** (collaborations outside the Nordic Countries). Measured by the share of publications that are co-authored with scientist originated in countries outside the Nordic relative to the total research output per grant and funding round.

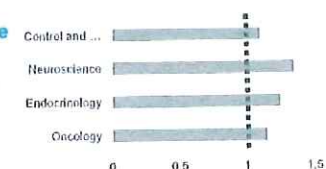
Scientific quality & specialization; knowledge strongholds are research fields in the upper right corner, with high specialization & high impact



International R&D network; colors shows institutions collaborating on similar research Themes.



A comparative advantage is defined as a scientific areas where the research impact is above average relative to e.g. OECD



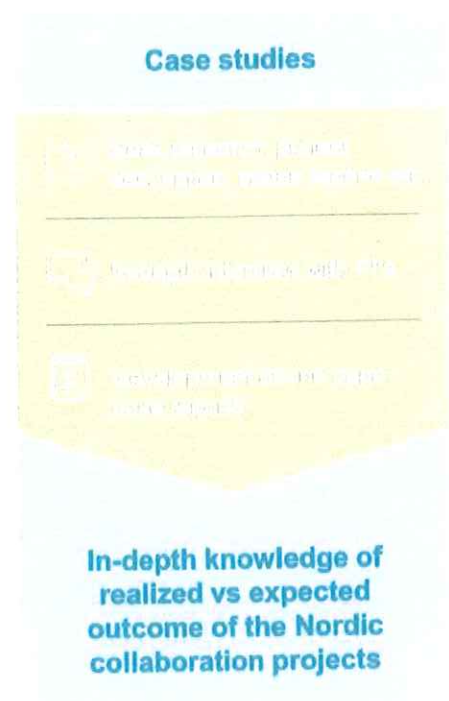
Bibliometrics in DAMVAD Analytics:

DAMVAD is the leading Nordic consulting firm within bibliometric analysis with several years of experience in mapping different research fields. Our key references includes; Mapping the output and quality of the Danish Heart Foundation grants (2016), mapping of welfare research in the Nordic Countries (2015), mapping of Danish educational research in primary and lower secondary schools (2014), mapping of ICT research (2013) and the mapping of research into research and innovation (2012).

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Project Case Study

- We propose that there will be conducted a limited number of case studies providing in-depth overview of 3-4 selected projects.
- The aim of the case studies is to be able to gain a closer insight into the specific role of Nordic cooperation in the projects. And, further to identify the determining factor for obtaining the added value of a Nordic collaboration result in research with high international impact.
- The case studies will seek to answer the following question on the Nordic Added Value;
 - What was the motivation for involving partners from other Nordic countries in the project?
 - How were Nordic project partners identified and engaged in the project consortium?
 - What activities did the project involve?
 - What are its results of the project (realized and expected)?
 - How were cooperation practically organized and realized in the project?
 - What did Nordic cooperation specifically add to the project, if anything?
- Based on the results from the case studies we will be able to contribute with new insight that underline the importance of the support given by the NCU grants for Nordic collaborating projects.



Key reference: **European Science Foundation**

A business plan for the European Science Foundation. This project developed a business plan for the European Science Foundation (ESF) after a major restructuring of the organization. The business plan was approved by the Board of Directors of ESF and the organization is now implementing it in full.

Budget & Deliverables

Budget



The project as presented is offered for a total fee of € 42.240,00 exclusive of VAT. A budget breakdown is presented below.

Updating the indicators and the visualization of the results annually is estimated to cost around € 6.000,00 exclusive of VAT.

Tasks		Price
General task	Project management and meetings	2.880
Work package	<i>Bibliometric analysis</i>	19.840
	<i>Case studies</i>	9.600
	<i>Tableau Visualization</i>	3.840
Quality assurance		960
Reporting		5.120
Total (hours)		218
Work package (Price)		42.240

If the budget does not fit the expectations of the NCU, we propose a further dialogue. It will be possible to scale down some of the activities or be less ambitious in the use of indicators.

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Deliverables

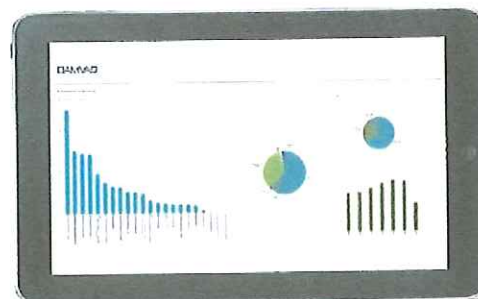


A very important part of this work will be how to deliver information from the two analysis for the board of NCU and the stakeholders. A Solid reports with good arguments is a matter of cause.

We will offer deliverables centered around a data driven report of approximately 10 pages accompanied by a interactive visualization of the results. Data and figures will be easy accessible to the board as well as the stakeholders through the visualization program Tableau. The overall aim of Tableau is to "help people see and understand their data" and we find it a very strong and intuitive tool in order to understand and cope larger amount of information.

An illustration of how we use Tableau as a tool for reporting as well as a presentation of how we previously has used the bibliometric indicators could be for a Nordic client is shown in the following link <https://goo.gl/zqWJlj>.

The use of Tableau allows us to conduct the annual update of all indicators with the use of limited amount of resources. The presentation of the annual results will be done in a way that allows for comparison with previous years.

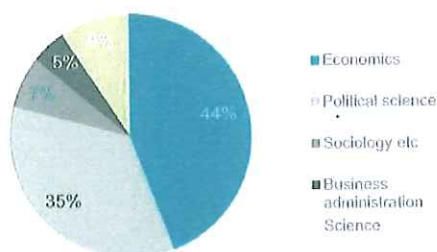




Company Profile, Team members and references

About DAMVAD analytics

20 experts in education, R&D and economic growth



Unique combination of insight and methodology

- Application of in-depth comparative insight into Nordic and European **education and research policy systems**
- Extensive **international reach** and team experience
- Unique diagnostic tool box to deliver **hard evidence on impact** : Performance management framework, survey and tracing methodology, patent- and publication analytics (Scientometric) and econometric modelling
- **Stakeholder engagement** through interviews and workshops etc.

Copenhagen (2007) & Stockholm (2014)



Academic partners

Norway

Centre for Rural Research
National Institute for
Consumer Research
STAMI
University of Nordland

Finland

Finnish Institute of Occupational Health

Denmark

Aalborg University
Aarhus University
Copenhagen Business School
KODA
National Research Centre for
the Working Environment
Roskilde University
Technical University of Denmark
University of Copenhagen

Sweden

KTH - Royal Institute of Technology
Linköping University
Lund University
Mälardalen University

The Netherlands

Maastricht University UNU-MERIT

Germany

Fraunhofer

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CV of key team members



Rasmus Lund Jensen
Principal Consultant

Responsibilities

Project Manager and the main person responsible for the project

Rasmus will perform analysis design, client engagement, day-to-day project management, strategic analysis, and be responsible for reporting on the bibliometric analysis and the project case studies.

Qualifications

- Rasmus has extensive knowledge of bibliometrics, patent analysis, statistics and econometric analysis on research, education and innovation. This includes an extensive focus on the use of bibliometric and patent data in impact assessments.
- Rasmus is DAMVAD Analytics' expert on designing international benchmark models for impact assessment exercises of research foundations and Nordic research programs. Rasmus' strong theoretical background has enabled him to contribute to several academic papers with focus on quantitative impact assessments of research and innovation in relation to university-industry collaboration and knowledge transfer.

Education

M.Sc. Biochemistry, University of Copenhagen

Work experience

- Principal Consultant, DAMVAD Analytics, 2016-2011
- Senior Analytics, Research Centre on Biotech Business, Copenhagen Business School, 2011-2004
- Research Assistant, Department of Innovation and Organizational Economics Copenhagen Business School, 2000-2004

Clients

The Knowledge Foundation in Sweden, Novo Nordisk A/S, The Danish Heart Foundation, The Novo Nordisk Foundation, Danish Agency for Science, Technology and Innovation, Nordforsk, The Nordic Council of Ministers, The University of Copenhagen, The Technical University of Denmark, Research Council of Norway, Innovation Fund Denmark



Bjarke Osmund
Researcher

Responsibilities

Project participants in the bibliometric analysis and the project case studies.

Bjarke will conduct the bibliometric analysis, the necessary desk research, interviews and analysis.

Qualifications

- Bjarke is a researcher at DAMVAD Analytics within Science & Innovation. Bjarke has extensive experience with quantitative methods.
- Bjarke's responsibilities in a long list of projects have included data handling and visualization, particularly as regards scientometrics. Bjarke works with dynamic and interactive visualizations in software such as Tableau and Gephi.

Education

Post grad. Digital Innovation and Management, IT University Copenhagen

B.Sc. Business studies and communication, University of Roskilde

Work experience

- Researcher ,DAMVAD, 2016-2014
- Intern at DAMVAD, 2014-2013

Clients

Nordic Council of Ministers, Nordforsk, Danish Agency for Science, Technology and Innovation, Novo Nordisk A/S, The Danish Heart Foundation, The Knowledge Foundation in Sweden

Selected references

Client	Year	Topic
The Danish Heart Foundation	2016	Providing evidence to the Heart Foundation on the efficiency of the funding scheme by mapping the research output from grantees relatively to Danish research in the field of cardiology.
European Science Foundation	2015	A business plan for the European Science Foundation . This project developed a business plan for the European Science Foundation (ESF) after a major restructuring of the organization. The business plan was approved by the Board of Directors of ESF and the organization is now implementing it in full.
Swedish Knowledge Foundation	2016-2015	Research performance in the Swedish Universities and University Colleges. The project aim is to show the research performance at Sweden's new university and colleges as a function of the basic funding and the ability to attract external funding relative to the average for all Swedish universities and colleges.
Novo Nordisk Foundation	2015	A bibliometric analysis of the research Centre, Steno Diabetes Center. The research effects are measured using state of the art bibliometric indicators for volume and quality of the conducted (published) research.
Nordforsk	2015-2014	Comparative statistical and bibliometric analysis of research related to the welfare sector in the Nordic countries.
Innovationfund Denmark	-2014	Evidence and strategy : A series of projects assisting the new governmental foundation for promoting collaboration on innovation and research. Evidence based strategy and evaluation modules, impact assessment framework, procedural advice.
Nordforsk	2014-2011	Evaluation of the Joint Nordic Toplevel Research Initiative in energy, climate and environment. On-going evaluation through the project DAMVAD – evaluation and counselling of the management concerning goal formulation, program design, resource allocation, effect analysis etc.
Swedish Knowledge Foundation	2015 -2014	Assessing the impact on the 17 universities the foundation supports. Impact is measured in terms of knowledge building (patent and publication analysis, skills and competences) and model for economic impact. DAMVAD has been selected as single supplier from 2014-2017.
Royal Swedish Academy of Engineering Sciences	2014	A study of actors, analytical ability and needs in Swedish Science policy . Assessment of the strategy, organisation, goal formulation, evaluation culture and impact of Swedish research policy.
Tryg Foundation	2014-2013	Evidence to the new research and innovation strategy in the foundation & evaluation and support to research network activities.
European Commission	2014-2013	European Service Innovation Centre (ESIC) – cross-european project on establishment of indicators and measurement of innovation in service sectors in 23 European countries.
Novo Nordisk	2014-2013	Human capital impact, R&D impact and economic impact of Novo Nordisk and the life science sector on the economy. Measurement of framework conditions from science and education and impact on the economy.

Application for strategic funds for – NORDCAN a strategic tool for cancer occurrence, mortality, prevalence and survival on comparable Nordic cancer data

The ANCR hereby apply for a 3 year grant on 105 500 € to run and update the NORDCAN database.

The database and the software have been extensively used both in the Nordic countries and worldwide as a prime source and example for valid cancer data and their interpretation. It is a flagship for international and Nordic recognition of the NCU – ANCR collaboration used by not only researchers, but governments, policy makers, journalists cancer organisations and patients.

The NCU has supported the NORDCAN project package updating the comparisons done in the 1990's during the KIN (Kretfbildet i Norden) project coordinated in Norway. The KIN project demonstrated the need for continuous and easy access for both researchers, cancer societies, journalist and the public to updated figures monitoring cancer incidence, mortality, prevalence and survival. To this was added predictions of cancer incidence and mortality 30 years into the future, and a NCU supported visualisation of cancer development in maps of the Nordic countries carried out in Finland. The database is updated two times each year to be as timely as possible with survival analysis annually and updates of maps every 3-5 years.

Apart from a long series of scientific publications detailing analysis of the data, a main outcome is the NORDCAN database and software. This software is developed and maintained in collaboration with the International Agency on Research on Cancer (WHO) Lyon, and cancer registry experts from each Nordic country.

The NORDCAN database and software has been the main instrument for the package of strategic projects in cancer monitoring supported by the NCU, projects coming to an end with the project on avoidable cancers in Nordic countries. The ANCR propose to maintain and update the joint database and software as a tool for future Nordic cancer research and information source for Cancer Societies, Journalists, Politicians and the public. The main costs for this lie in the respective national cancer registries. The additional costs for assembling and preparing and analysing data to be displayed lie in the secretariat at the Danish Cancer Society for the NORDCAN DB and the biannual meetings of the registry experts from each cancer registry.

Based on the experience from the past 13 years we apply NCU for annual strategic funds of 35 500€ for a 3 year period – altogether 106 500 € to keep the NORDCAN DB alive and of high quality.

Annual budget (DKK):	
Salaries (senior statistician 2 mth) Data manager/statistician (1 mth)	193 000
Office (IT- share of software costs- etc.)	10 000
Project meetings (2 per year)	

Airfares (6 persons – No,S; I, SF, Fo,F)	40 600
Accommodation (12 nights)	12 600
Meals (10 persons*2) (dinner + lunch)	9 000
Total	265 200
Total €	35 500

Further development and additions to the software will be applied for in special project applications discussed with the NCU. The overall aim is to provide a tool that continue to be actively used to follow and improve cancer care in general, and as such future development may include more clinical variables, variables related to diagnostics, treatment and aftercare.

On behalf of the NORDCAN secretariat under the ANCR

Hans Storm. Medical Director
Danish Cancer Society

For the ANCR

Nea Malila, Director
Finnish Cancer Registry
Chairman ANCR