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Access to Research and Technical Information in Denmark

**Report to The Danish Agency for Science, Technology
and Innovation (FI) and Denmark's Electronic Research
Library (DEFF)**

Annex I Questionnaire

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The Danish Agency for Science, Technology and Innovation (FI) and Denmark's Electronic Research Library (DEFF) wish to get a better understanding of how you access research and technical information, how important it is to you and your firm, and whether you have any problems in getting the information you need.

We have been commissioned to set up this online survey to explore your views. The survey is short and will take around 10 minutes to complete (there are 36 questions). Please take this opportunity to feed your views and opinions back to the Agency and DEFF.

We will be aggregating responses when we report results to the Agency and DEFF, so your individual response will remain confidential and will not be shared with either agency. Please click this link for a **DANISH LANGUAGE VERSION** of this survey.

About you and your firm

We would like to begin with a little background information about you and your firm.

1. In what year was your firm established?

(yyyy)

2. Are you or have you ever been involved with the national scheme of innovative incubators "Innovationsmiljoerne"?

- Yes
 No

3. Approximately, how many employees are there in your firm?

- Less than 5
 5 to 9
 10 to 19
 20 to 49
 50 to 99
 100 or more

4. Approximately, what is your firm's annual revenue from SALES (on average over the last 3 years)?

(In Kroner per year (we realise it may be zero for new start-ups))

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5. Approximately, what is your firm's annual R&D spending (on average over the last 3 years)?

(In Kroner per year)

6. Which best describes the main activity of your firm?

- Manufacturing
- Services
- Content/Software

7. Which of the following industry categories best describes what your firm does?

- A Agriculture, forestry and fishing
- B Mining and quarrying
- C Manufacturing
- D Electricity, gas, steam and air conditioning supply
- E Water supply, sewerage, waste management and remediation services
- F Construction
- G Wholesale and retail trade
- H Transportation
- I Accommodation and food service activities
- J Information and communication
- K Finance and insurance
- L Real estate activities
- M Knowledge-based services
- N Travel agent, cleaning and other operational services
- O Public administration, defence and compulsory social security
- P Education
- Q Human health and social work
- R Arts, entertainment and recreation activities
- S Other service activities

8. What is your main role within your firm?

- Research / Development
- Engineering
- Management / Administration
- Marketing / Sales
- Advisory / Consultancy
- Other (please specify)



Your information needs: access levels and costs

The questions in this section are designed to explore your information needs, how you discover and access information, and whether there are any barriers to access or gaps in what is available to you.

9. How important is it that you have access to the types of information listed below?

(On a scale of “not at all important” to “extremely important”)

Patent information	<input type="checkbox"/>				
Research articles	<input type="checkbox"/>				
Conference papers and proceedings	<input type="checkbox"/>				
Doctoral or Masters theses	<input type="checkbox"/>				
Market survey research	<input type="checkbox"/>				
Market reports on sector or products	<input type="checkbox"/>				
Technical reports from government agencies	<input type="checkbox"/>				
Legislative / Regulatory information	<input type="checkbox"/>				
Scientific and technical standards	<input type="checkbox"/>				
Professional / Trade publications	<input type="checkbox"/>				
Product or process technical information	<input type="checkbox"/>				
Reference works (Dictionaries, directory lists, encyclopaedia, etc.)	<input type="checkbox"/>				
Other	<input type="checkbox"/>				

Please specify what the ‘Other’ type information is:

10. How easy is it for you to gain access to the FULL TEXT content of the information you need?

(On a scale of “very easy” to access the full text content to “very difficult”)

Patent information	<input type="checkbox"/>				
Research articles	<input type="checkbox"/>				
Conference papers and proceedings	<input type="checkbox"/>				
Doctoral or Masters theses	<input type="checkbox"/>				
Market survey research	<input type="checkbox"/>				
Market reports on sector or products	<input type="checkbox"/>				
Technical reports from government agencies	<input type="checkbox"/>				
Legislative / Regulatory information	<input type="checkbox"/>				
Scientific and technical standards	<input type="checkbox"/>				
Professional / Trade publications	<input type="checkbox"/>				
Product or process technical information	<input type="checkbox"/>				
Reference works (Dictionaries, directory lists, encyclopaedia, etc.)	<input type="checkbox"/>				
Other	<input type="checkbox"/>				

Please specify what the ‘Other’ type information is:

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11. If you could improve access to any of these types of information, which would you choose?

(Please tick any that apply)

- Patent information
- Research articles
- Conference papers and proceedings
- Doctoral or masters theses
- Market survey research
- Market reports on sector or products
- Technical reports from government agencies
- Legislative / Regulatory information
- Scientific and technical standards
- Professional / Trade publications
- Product or process technical information
- Reference works

Other (please specify)

12. How often do you use the following ways to access the FULL TEXT content of the information you need?

	<i>Daily</i>	<i>Weekly</i>	<i>Monthly</i>	<i>2 - 6 months</i>	<i>Less often</i>
Government databases	<input type="checkbox"/>				
Commercial databases	<input type="checkbox"/>				
Free institutional or subject repositories	<input type="checkbox"/>				
In-house library	<input type="checkbox"/>				
Personal subscription	<input type="checkbox"/>				
Colleague's personal subscription	<input type="checkbox"/>				
Professional society membership	<input type="checkbox"/>				
Local public library	<input type="checkbox"/>				
Local academic research library	<input type="checkbox"/>				
Inter-library loan	<input type="checkbox"/>				
Author's website	<input type="checkbox"/>				
Personal communication with author	<input type="checkbox"/>				
Author's institutional website	<input type="checkbox"/>				
Publisher's website (pay for access)	<input type="checkbox"/>				
Open access journal (free access)	<input type="checkbox"/>				
Other	<input type="checkbox"/>				

Please specify what the 'Other' type information is:

13. Approximately, how often do you read or consult research articles, either in journals or individually, and in either print or electronic form?

- Daily
- 2 - 3 times a week
- Weekly
- Monthly
- Every 2 - 3 months
- Every 4 - 6 months
- Annually
- Less often
- Never

14. Approximately, how many research articles do you read or consult each year, either in print or electronic form?

15. Do you have any difficulty accessing the FULL TEXT of the research articles you need?

- Always (I always have great difficulty getting the research articles I need)
- Frequently (I frequently have difficulty getting the research articles I need)
- Sometimes (I sometimes have difficulty getting the research articles I need)
- Rarely (I have access to most of the research articles I need)
- Never (I have access to all the research articles I need)

16. During the past 12 months, approximately how many research articles did you find it difficult to access?

(Number of articles)

17. In relation to the LAST RESEARCH ARTICLE YOU HAD DIFFICULTY ACCESSING, how important was it to gain access to the full text of the article? (On a scale of 1 "not at all important" to 5 "extremely important")

- 1 (Not at all important)
- 2
- 3
- 4
- 5 (Extremely important)



18. In relation to the last article you had difficulty accessing, what particular difficulties did you encounter?

(Please tick any options that apply)

- I was unsure how to find the article
- I searched online, but could not find the article
- I could not remember the bibliographic details
- The library I use did not have a copy
- I tried to access the article from home, but discovered I could only access it from work
- I found the article online, but had to pay to access the full text
- I found the article online, but had technical difficulties paying

Other (please specify)

19. In relation to the last article you had difficulty accessing, how did you learn about it?

(Please tick any options that apply)

- Using a general search engine (e.g. Google)
- Using a specialist search engine (e.g. Google Scholar, Web of Science, PubMed)
- A citation/reference in a publication
- Referred to on a special interest website
- Referred to by a colleague or friend
- Received automatic notification (e.g. from a repository or publisher)
- Heard about at a conference
- Read about it in a magazine or newspaper
- Heard about it on TV or radio

Other (please specify)

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20. In relation to the last article you had difficulty accessing, what did you do to obtain access to the FULL TEXT content of the article?

(Please tick any options that apply)

- Obtained access via my organisation's library or in-house information service
- Obtained access via my local academic/research library
- Obtained access via a local public library
- Obtained access via a national library
- Obtained access using a web search engine (e.g. Google, Yahoo)
- Obtained the article through someone who has access (e.g. an academic colleague)
- Requested an inter-library loan
- Looked for the article on the publisher's website
- Looked for the article on the author's website
- Looked for the article on the author's organisation's website (e.g. university)
- Looked for the article on a conference website
- Looked for the article on an open access repository (e.g. arXiv, PubMed, SSRN)
- Approached the author directly

Other (please specify)

21. In relation to the last article you had difficulty accessing, approximately how much time did you spend trying to get access to it (whether successful or not)?

(Minutes)

22. How did you intend to use the last article you had difficulty accessing?

- For work
- For studies
- General interest
- Other (please specify)

23. Is your experience with the last article you had difficulty accessing typical of the difficulties you have?

If not, would you like to comment?

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24. If your firm has any CORPORATE SUBSCRIPTIONS to research journals, approximately how much does it pay each year in total?

(Kroner per year spent on journal subscriptions)

25. If your firm has paid to access individual research articles (e.g. pay-per-view) in the past 12 months, approximately how much has it spent in total?

(Kroner per year spent on accessing individual articles)

26. If you have any PERSONAL SUBSCRIPTIONS to research journals, approximately how much do you pay each year in total?

(Kroner per year spent on journal subscriptions)

27. If you personally have paid to access individual research articles (e.g. pay-per-view) in the past 12 months, approximately how much have you spent in total?

(Kroner per year spent on accessing individual articles)

The importance and value of access to academic research

The questions in this section are designed to help us understand how important access to research information is for your firm. We are interested in the extent to which the information found in research articles contributes to innovation and the value of that innovation to your firm. In particular, we would like to know how important access to academic research is to the timeliness of your product or service development and about delays or failures in product development that could be due to lack of access to academic research. We are interested in products and processes developed by your firm and/or developed externally and introduced by your firm. We realise that some of these questions may be difficult to answer, especially for new start-up firms.

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28. Has your firm developed or introduced any new or significantly improved products or processes during the last 3 years (whether new to your firm, new to the local market or new to the world)?

(Please tick any options that apply)

- New or significantly improved products (goods or services)?
- New or significantly improved operational processes?
- New or significantly improved organisational/managerial processes
- None

29. Of the PRODUCTS developed or introduced in the last 3 years, approximately what percentage of them would have been delayed or abandoned if access to academic research had not been possible?

(Percentage of new or improved products)

Do you have any comments you would like to add?

31. Approximately, what contribution to sales do PRODUCTS developed or introduced in the last 3 years make (or what contribution will they make once introduced)?

(Percentage of sales)

32. Of the PROCESSES developed or introduced in the last 3 years, approximately what percentage of them would have been delayed or abandoned if access to academic research had not been possible?

(Percentage of new or improved processes)

Do you have any comments you would like to add?

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34. Approximately, what is the value of cost savings that PROCESSES developed or introduced in the last 3 years have enabled (or what savings will they enable once introduced)?

(Value of cost savings in Kroner per year)

35. Approximately, what was the average time lag (in years) between the academic research and the first introduction of these new products and new processes?

(In years)

36. In your opinion, approximately how much longer might it have taken to develop or introduce these new products and processes without the contributing academic research?

(In years)