

# Future Interfaces to Library Services

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# **Novo Nordisk Library**

- Novo Nordisk
  - global healthcare company
  - 89 years of leadership in diabetes care
  - leading positions within haemophilia care, growth hormone therapy and hormone replacement therapy



- Headquartered in Denmark
  - 33,300 employees in 75 countries
  - products in more than 190 countries
- Novo Nordisk Library supports Novo Nordisk employees world wide

# **Overview**

1. Why have we initiated an innovation project

- 2. What do we want to achieve
- 3. Alternative working methods
- 4. Final concept
- 5. How to get started







# **Background**



- The innovation project is the response to
  - New physical location
  - Next generation digital interfaces
  - Increase value of Library services





# Why "innovation" project

nordisk library

- Ensure long term benefits of upgrade
- Concept that addresses the right issues
- Improve usability based on current and emerging practices of key user groups in Novo Nordisk





# **User needs**

- 57 qualitative interview and feedback sessions throughout the company
- 11 basic user needs identified, ex:
  - "Easier navigation during explorative searches"
  - "Identification of blind spots regarding highly relevant resources"

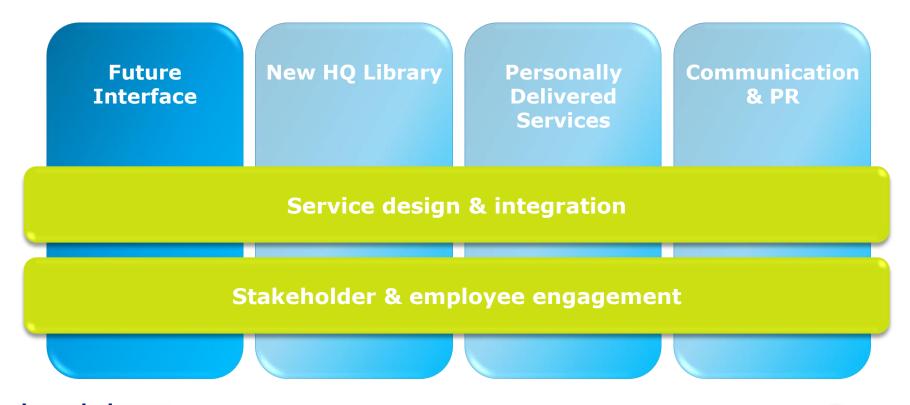






# 4 subprojects

Library Innovation project

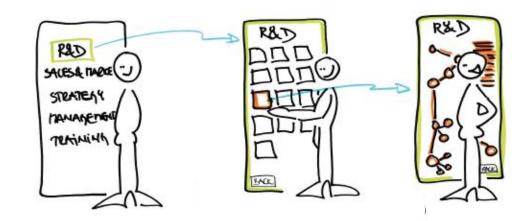






# **Future interface subproject**

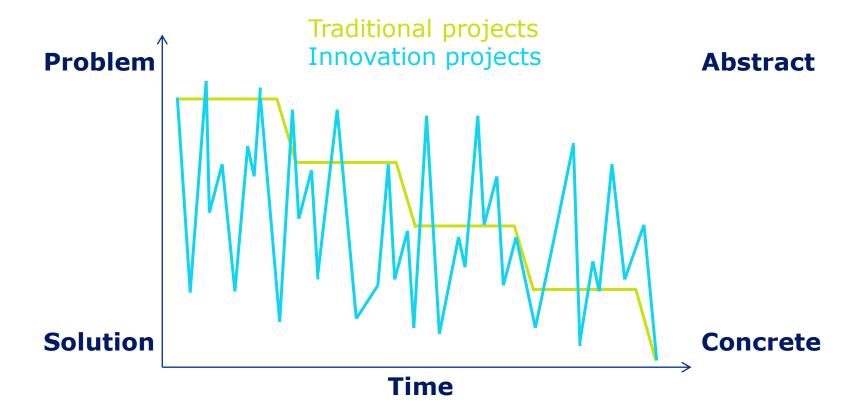
- The vision of the concept is to improve NN employee productivity by:
  - Minimising their effort to stay updated on newly published knowledge within and beyond their field of expertise
  - Optimising their daily and exploratory search tasks
  - Creating a one-stop access to internal and external information sources







# What is different?







## **Process**

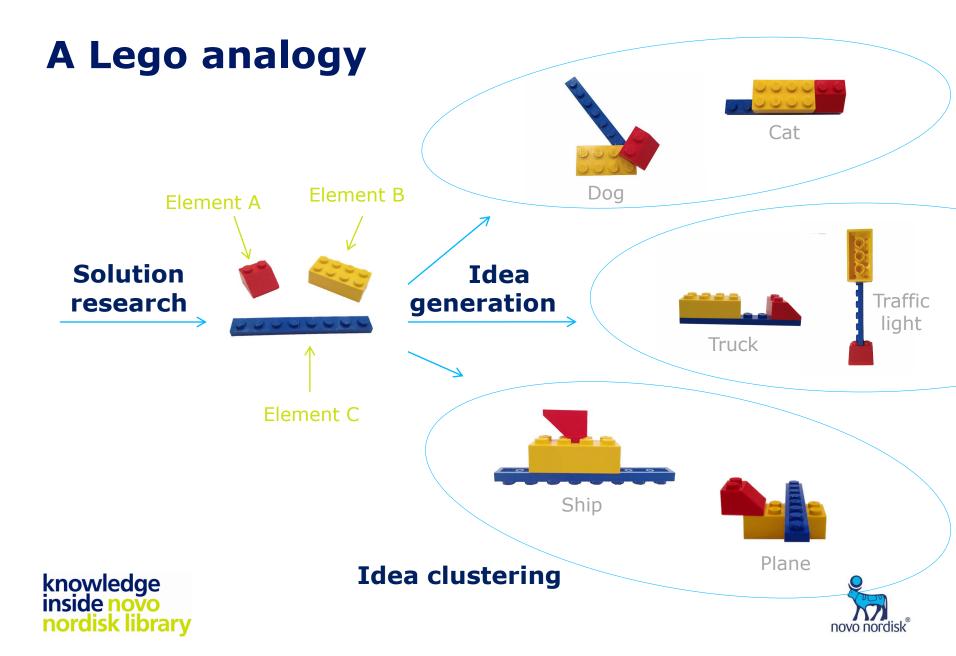
- Solution research
- Idea generation
- Idea clustering
- Idea refinement
- Idea posters
- Concept development









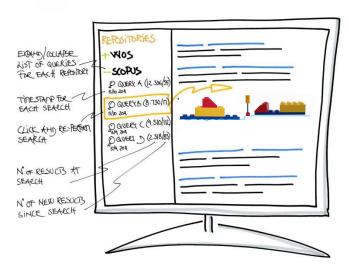


# A Lego analogy - cont.





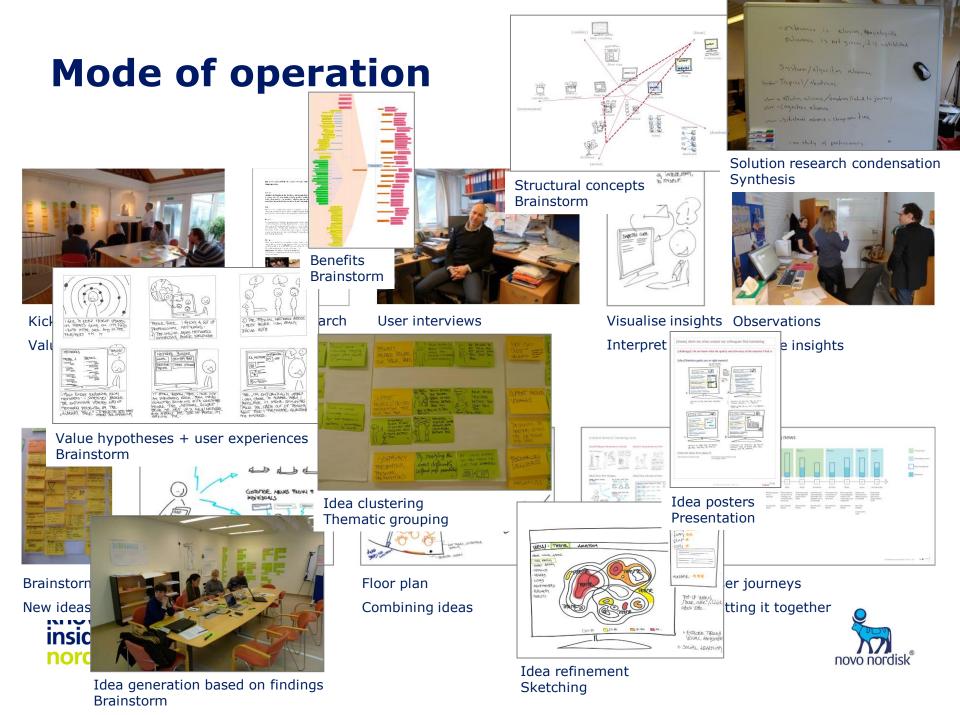
**Idea posters** 



**Concept development** 









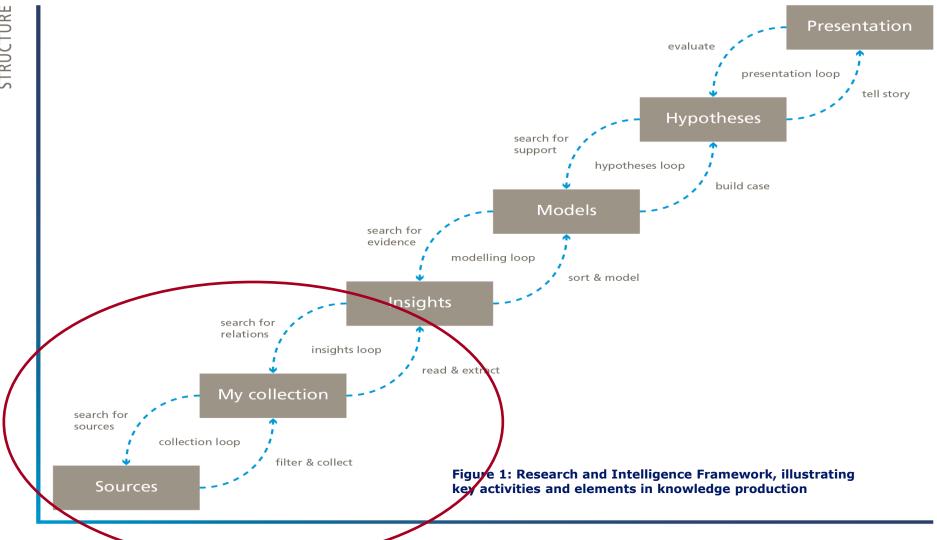
# The final concept

Underlying solution concept User challenges solutions examples Benefits if implemented

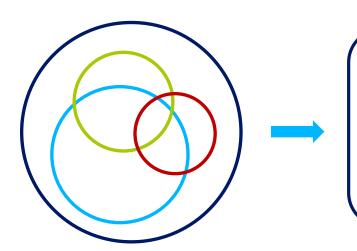




# Focus on sources and collections



# **Solution concept**



### Search

External sources
Internal sources
Parallel search
Rich search results
Search support
Post processing

### Knowledge centre

High quality selection Organised material Search and browse Handpicked selections

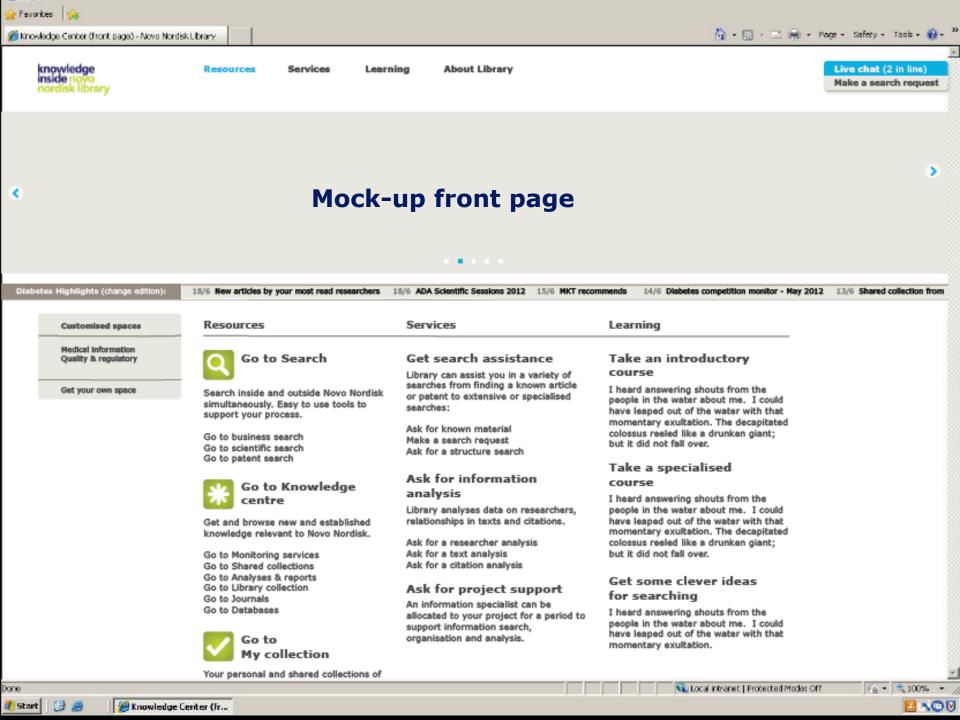
### My collection

Collect personal material Organise collected material Share material collections Evaluate & annotate









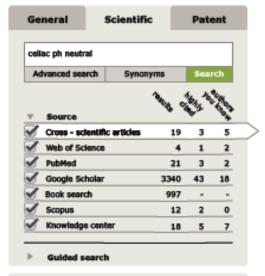












### What are you interested in?

- Y Year
- # 2012 (1)
- 2011 (3)
- +- 2010 (7)
- More (8)
- Resource type
- Access
- Have I seen this previously?
- ▶ Topic
- ▶ Author
- ▶ Conference
- Organisation / source

### Clever ideas for searching

Life science, Patents, Engineering, Manufacturing, Organisation, Sales, Marketing, Products, Competitors, Stakeholders, Regulatory, Patients

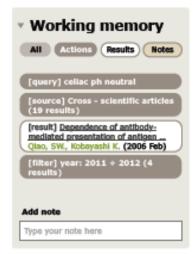
### Results [Cross - scientific articles]

Sort by: Citation over age ▼

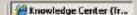
year: 2011 + 2012 (X

- Resolving Multiple Protein-Peptide Binding Events: Implication for HLA-DO2 Mediated Antigen Presentation in Celiac Disease
- Wang J, Jin X, Liu J, Khosla C, Xia J. (2012 May) Chem Asian J. (4.188)
- Abstract: ... thus lies at the center of antigen presentation studies in cellac sprue.3 In particular, the remarkable antigenicity of gluten peptides to cellac patients has been correlated, at least partially, to their unusual binding behavior to HLA-DQ2 at neutral pH in the extracellular mille... see more >> Citing 20 See related Copyright note Preview full Direct access
- Fast and efficient characterization of an anti-gliadin monoclonal antibody epitope related to cellac disease using resin-bound peptides
- Petersen, WNH., Hansen, PR.,... (2011) Journal of Immunological methods (2.340) Article: ... Celiac disease (CD) is an immune-mediated enteropathy induced by ingestion of gluten proteins, which affects one in every 200 Europeans (Stern et al ... TFA and CH 3 COOH, but other solutions, ie saline with low pH level followed by instant washing with pH neutral solution... see more>> Cited by 2 Citing 17 See related Copyright note Preview abstract Pay per view
- Enhanced intestinal absorption of Carcinogens of dietary origin in patients with Gastrointestinal disease and in patients receiving Calcium Channel Blockers
- Khan, AG.,... (2011) Journal of Postgraduate Medical Institute (0.052)
- Article: ... carcinogen uptake occurs in intestinal diseases where the normally slightly acidic (pH 6.1) mucosal surface pH is shifted to neutral or to ... In the normal human small intestine, the mucosal
- surface pH is about 6.0 in vivor and is altered to closer to neutrality in cellac and Crohn'... see more>> Citing 35 See related Copyright note Preview full Direct access
  - Elution of antitransolutaminase antibodies from duodenal bioosies; a novel approach in the
- diagnosis of cellac disease
- S Rathsman, C Tysk, S Eriksson, O Hultgren... (2012) APMIS (1.944) Article: ... Cellac disease (CeD) is a gluten dependent inflammatory condition of the small intestine. ... The cluate was collected and immediately neutral- ized to pH 7
- using 0.5 M Tris solution (C4H11NO3, adjusted to pH 10.5 using HCl). ... see more>> Citing 57 See related Copyright note Preview abstract Restricted access

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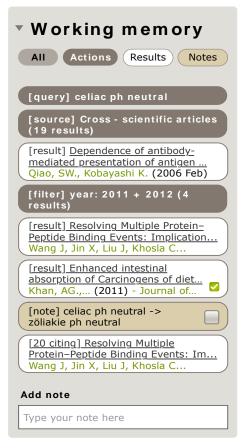


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# **Working memory**



"Easier navigation during explorative searches"

- Help users being more systematic during exploratory search
- A combination of a notepad and an action log





G3

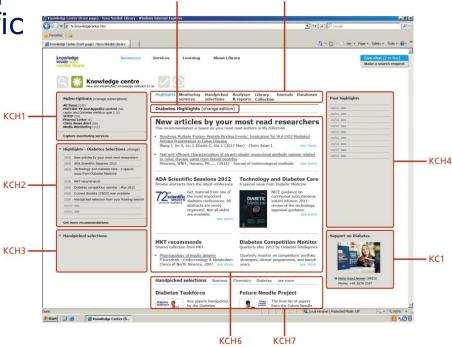
# Find relevant resources

- Knowledge centre
- A workplace for the NN knowledge worker to find material selected by Library or other competences with respect to subject domains of specific

interest

"Identification of blind spots regarding highly relevant resources"

KCH5





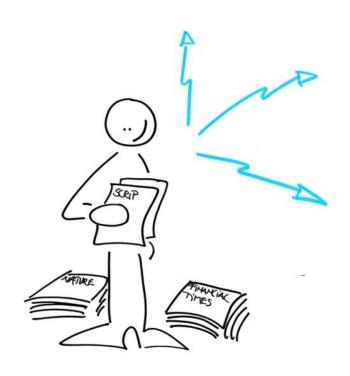
# **Benefits**

- Due to
  - More effective explorative search for information
  - Easy access to newly published knowledge
  - One-stop access to main internal and external information sources
- Savings if implemented
  - High-intensive knowledge workers: 10 min/week
  - Infrequent users: 5 min/week
- Optimised usage of the existing investment in information access









# How to get started?

Process Funding Allocation Clear roles





# Traditional vs. innovation projects

- Frustrating not to follow the traditional path
  - Idea → initiate → analyse → execute → realise
- Expect and accept endless walls with labels!



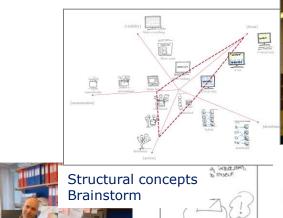




Get help!



Idea generation based on findings Brainstorm





Solution research condensation Synthesis



arch User interviews



Idea clustering Thematic grouping



Floor plan Combining ideas



Visualise insights Observations



Idea posters Presentation



er journeys

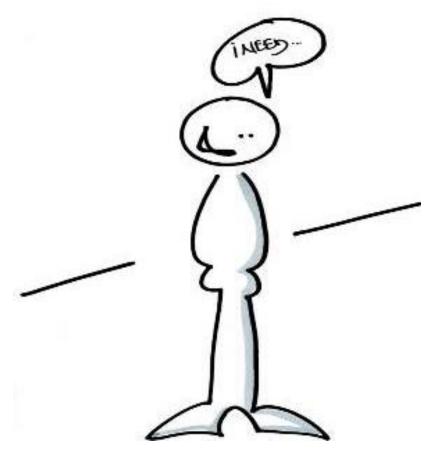
tting it together



Idea refinement Sketching

Slide no 25

# **Get funding**



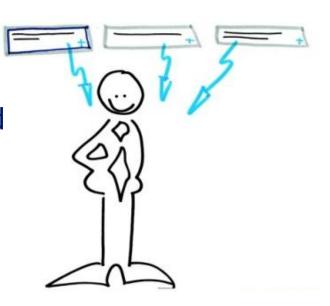
- Stakeholder management is very important
- Difficult to "sell" an incomplete concept





# **Resource allocation**

- Difficult to predict resources needed
  - Interesting and gratifying and frustrating for project members
  - Often results in >100% allocation



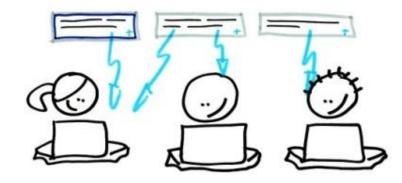




# **Clear roles**

- Many stakeholders
  - Everybody seems to know the best solution, with or without user sessions, solution research, etc.
- Project group need to understand governance process
  - Less frustration, more focus on delivering management information
- Development vs. decision
  - Project should develop concept
  - Steering group take decisions







# Thank your for your attention!



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