



European
Commission

MAKING RESEARCH RESULTS WORK FOR SOCIETY

*BUILDING SOLUTIONS FOR THE CIRCULAR
ECONOMY THROUGH OPEN INNOVATION*

Michela Magas



Research and
Innovation

All elements can be moved



Knowledge valorisation

Experimental labs with Communities of Practice

>> Industrial value networks

Cross-domain academic research

>> Industrial interoperability

OntoCommons Coordination and Support Action

>> RE4DY Manufacturing Innovation Action





All elements can be moved



Class hierarchy: Patent_Description

Annotations Usage

Annotations: Patent_Description

Description: Patent_Description

Equivalent To +

SubClass Of +

- European_Patent_Convention_Requirements
- hasIP_Right_Data_Criterion some Background_Art
- hasIP_Right_Data_Criterion some Industrial_Application
- hasIP_Right_Data_Criterion some Invention
- hasIP_Right_Data_Criterion some Technical_Field

General class axioms +

SubClass Of (Anonymous Ancestor)

Instances +

Target for Key +

Disjoint With +

Disjoint Union Of +

Class hierarchy: Patent_Description

- owl:Thing
 - Country
 - Data_Format
 - Entity_Status
 - IP_Actor
 - IP_Asset
 - IP_License
 - IP_License_Requirement
 - IP_Process
 - IP_Right
 - IP_Right_Criterion
 - Copyright_Criterion
 - Geographical_Origin_Protection_Criterion
 - Industrial_Design_Criterion
 - Patent_Criterion
 - Plant_Variety_Criterion
 - Registration_Data
 - Applicant_ID
 - Inventor_ID
 - Patent_Data
 - European_Patent_Convention_Requirements
 - Drawings
 - Patent_Claim
 - Patent_Claim_Elements
 - Patent_Description
 - Patent_Description_Elements
 - National_Patent_Requirements
 - Patent_Cooperation_Treaty_Requirements
 - Registered_Copyright_Data
 - Registered_Trademark_Data
 - Sui_Generis_Database_Right_Criterion
 - Trade_Secrets_Criterion
 - Trademark_Criterion
 - RE4DY_Resilience_Factor

Menu **IKEA** What are you looking for? Hej! Log in or sign up

Shop products Shop by room Sale Offers Enter postcode Lakeside

My Journey

Hej Guest

Welcome to IKEA. If you tell us more about what you are looking for in Sofas, we can personalise your recommendations. This is an [anonymous session](#) and you can choose whether your inputs should be saved.

Room:

Activity: Sit back on a sofa Socialize Sleep

Sit back and relax. It's one of life's simple pleasures, and it's all about personal comfort. That's why we make soft and cosy sofas you can sink into. Whether you are looking for a sofa with storage, a [modular sofa](#) or a [large corner sofa](#)? We have those and many more [sofa styles](#) to choose from. No matter how many (or how few) you are, your sofa is always ready to welcome you no matter the occasion. Don't forget to add a [throw](#) and a few [cushions](#) to snuggle up in.

Create a cosy spot anywhere at home with comfortable sofas

No matter how big or small your space is, there's a plush and comfortable sofa that would fit right in. We have plenty of sofas – in different styles and sizes – to create your very own relaxation nook.

[See all fabric sofas](#)

IKEA Knowledge Graph Powered by Metafactory **katarina.kari1@inter.ikea.com** SPARQL Assets

Hackathon Oslo Ontology

URI: http://ontologies.metaphacts.com/hackathon_oslo_ontology

Home Assets Ontologies Hackathon Oslo Ontology

Default Diagram June 12, 2022 [Load a different version](#) [Save changes to diagram](#)

Hackathon Oslo Ontology

Classes Attributes Relations

End classes

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All elements can be moved



IKEA Knowledge Graph breakthrough

- No cookies, anonymous and transparent session for the customer
- The additional features that would previously take months added in three days, with notable labour savings
- Substantially improved time to market allows for quick iterations and improvements
- No data migration, no training of large data sets over periods of months, no expense of running statistical models hosted in the cloud
- Substantial reduction of data carbon footprint

All elements can be moved



“

“The benefit of ontologies and instances following those ontologies is that we can craft a straight-forward, transparent experience that actually asks upfront, and knows what to ask”

Katariina Kari, Lead Ontologist, IKEA Inter-Global Systems

All elements can be moved



>> **KGA**

**KNOWLEDGE
GRAPH
ASSOCIATION
ASBL**

Official launch 10 November 2023, Brussels



*Research and
Innovation*

Thank you

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