



ICEG Hydrants: Business Workshop

Welcome!

7 March 2023

Virtual working group – Google Meet



Agenda

#1 Welcome and introduction to ICEG

#2 Context and Use Cases



#3 Break

#4 Key Concepts



#5 Next steps



Practicalities

Audience sound is muted by default.



Use the hand in Google Meet if you want to say something.

Questions, comments and suggestions can be communicated via the chat function. Interaction is encouraged!




A yes/no question can be answered simply and quickly via the chat:

Agree = +1


Do not agree = - 1

Indifferent = 0



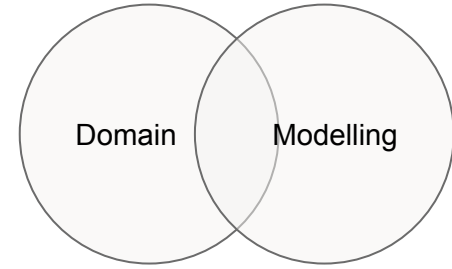


Welcome and introduction to ICEG



Virtual tour de table

Please add a post-it stating your name, affiliation and interest or experience regarding fire hydrants (modelling)



[Go to the Mural](#)

Introduction to ICEG

- The ICEG* review group 'open standards' has a permanent character and is responsible for the central coordination and follow-up of the work related to the standardisation of information.
- A cooperation agreement between the federal, regional and community governments to harmonise and align the initiatives aimed at realising an integrated e-government.
- Defining data standards
 - Exchanging data (syntax (grammar) and technical standards)
 - Define concepts in an unambiguous way (semantic)
 - Bottom-up development
- Mission aligned to the existing ICEG collaboration agreement between the federal, regional and community authorities (dd. 2013-08-26). Already modelled [ICEG Public Organisation](#), [ICEG Public Service](#) & [ICEG Building](#).
- Based on previous work and specifications when existing, such as OSLO (Flanders), INSPIRE

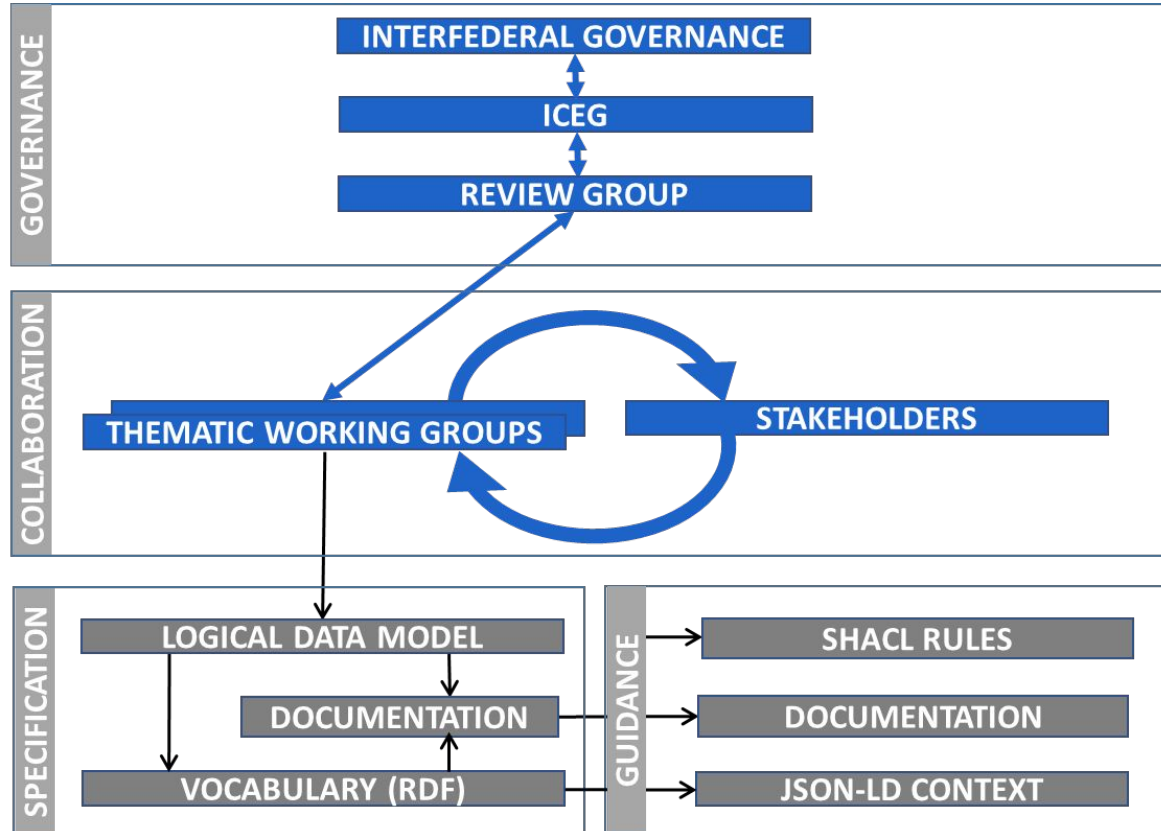
DIGITAAL
VLAANDEREN



Wallonie

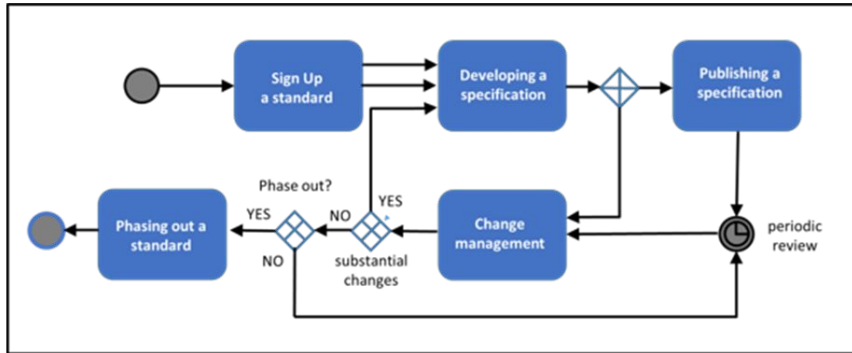


Governance



Governance: ICEG process and method

- Scalable process for registering, developing, changing and phasing out data standards.

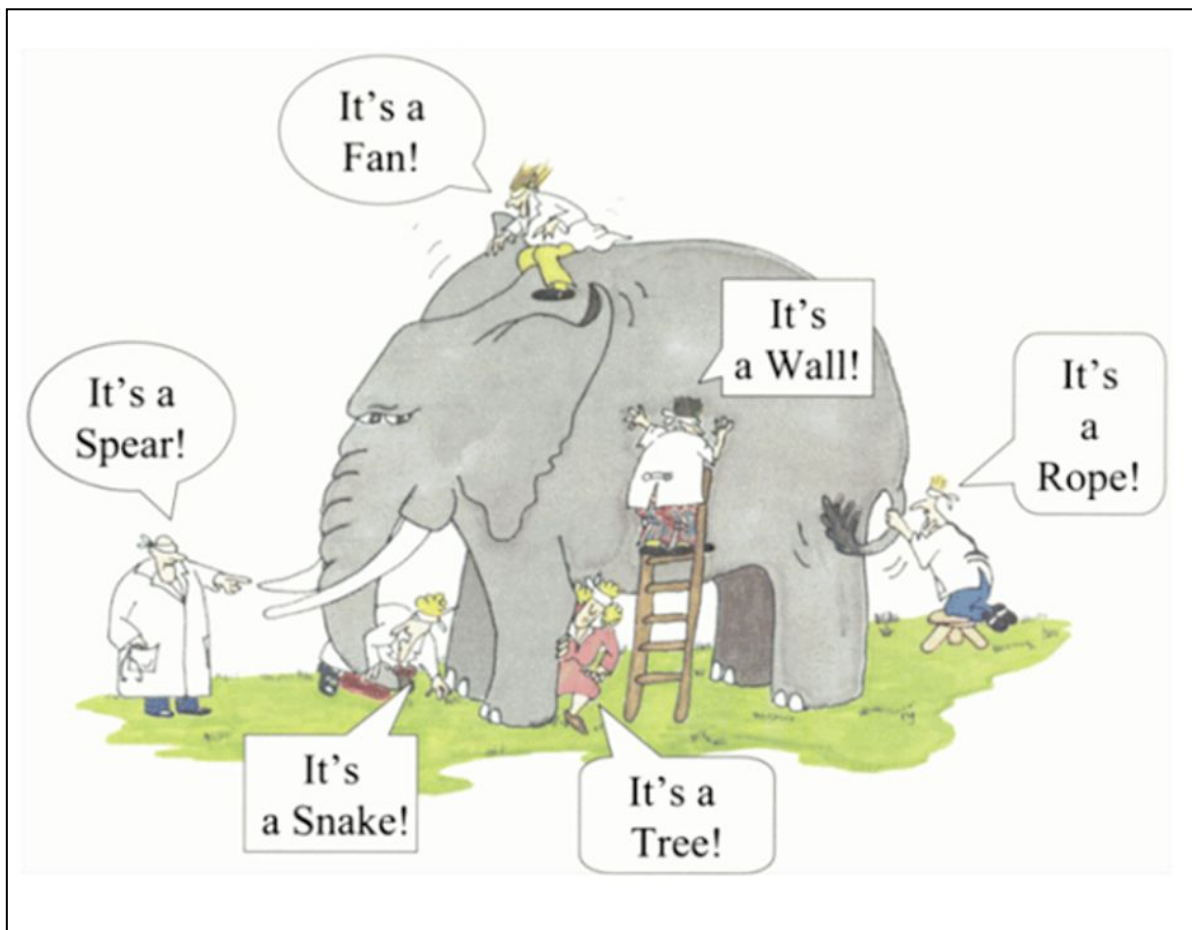


Abstract: French, Dutch

Full paper: English

W3C, IEEE, IETF, IAB en ISA, Open Stand, OSLO





4 layers of interoperability

Semantic aspect

"meaning of data elements and the relationship between them. It includes developing vocabularies and schema to describe data exchanges, and ensures that data elements are understood in the same way by all communicating parties;"

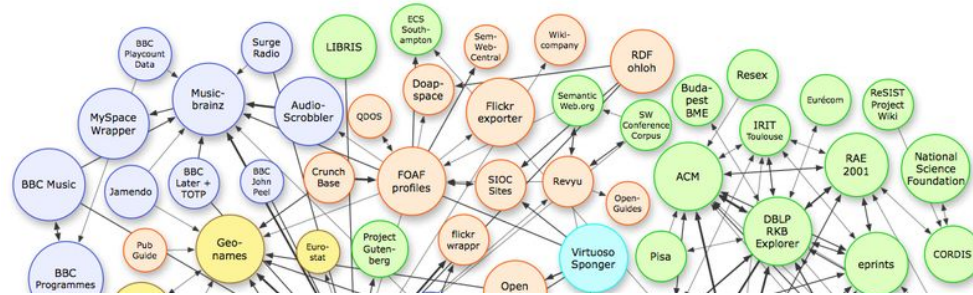
Syntactic aspect

"describing the exact format of the information to be exchanged."



Share and reuse

International Standards



EU CORE Vocabularies and INSPIRE



ICEG extension



Interoperable Europe
Federal Government
Regional Government
Local government
Industry
Academia



Context and Use Cases



Context of the work

WHAT

Define the key information for describing **Hydrants** by reusing existing standards, if applicable.

WHO

Emergency services, NGI/IGN, representatives/experts from Interior Affairs concerned with legislation (Civil Security), Owners of the extinguishing water sources, KBO/BCE, KLIM-CICC and KLIP, VMM, TLPE, VVSG, UVCW, Digitaal Vlaanderen, BOSA, etc.

WHY

Benefits of such standards are: (i) making data accessible as **Linked Open Data**, (ii) Defining standard interfaces (**APIs**), (iii) making **collaboration** and **integration** of various services and tools easier and (iv) easily **reusable data** for all stakeholders.

HOW

Via **workshops**, **reviews** and **deliverables** we (i) define and agree on use cases, (ii) identify the information/data necessary for these use cases, (iii) model the information/data and (iv) document the model in different formats.

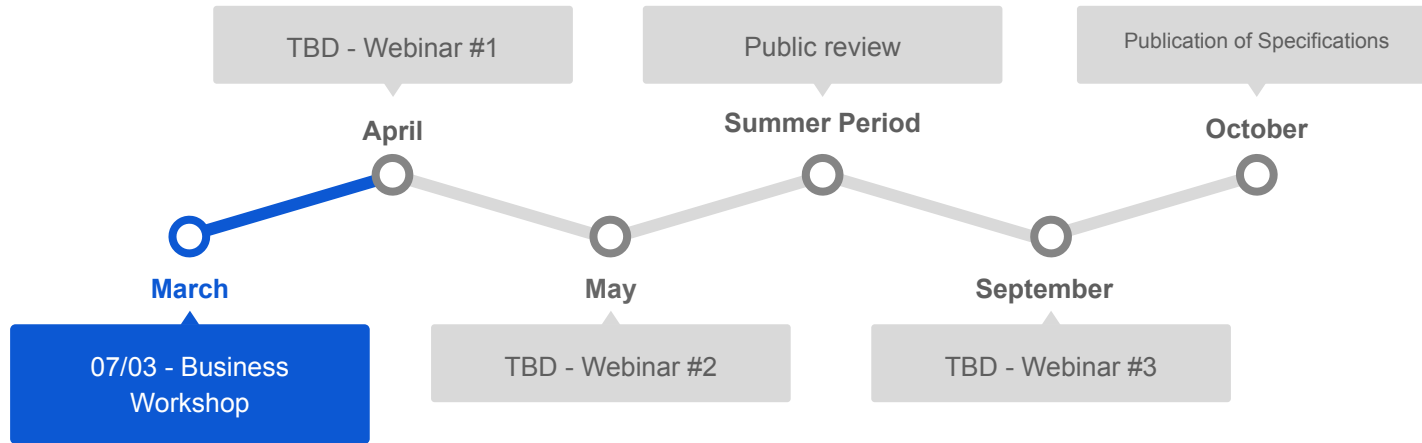
The importance of harmonisation in the Belgian context

By standardising data pertaining to hydrants, several benefits can be achieved, including:

- **Improved accuracy and reliability of information** → Increased transparency and consistency in the data
- **Enhanced collaboration** among Belgian emergency services during field operations and major incidents → Easier sharing and exchange of data among different agencies
- **Improved cartographic interfaces** that establish connections between attributes and standardised symbols → Facilitated integration with other datasets
- **Better management** of hydrants and extinguishing water sources.

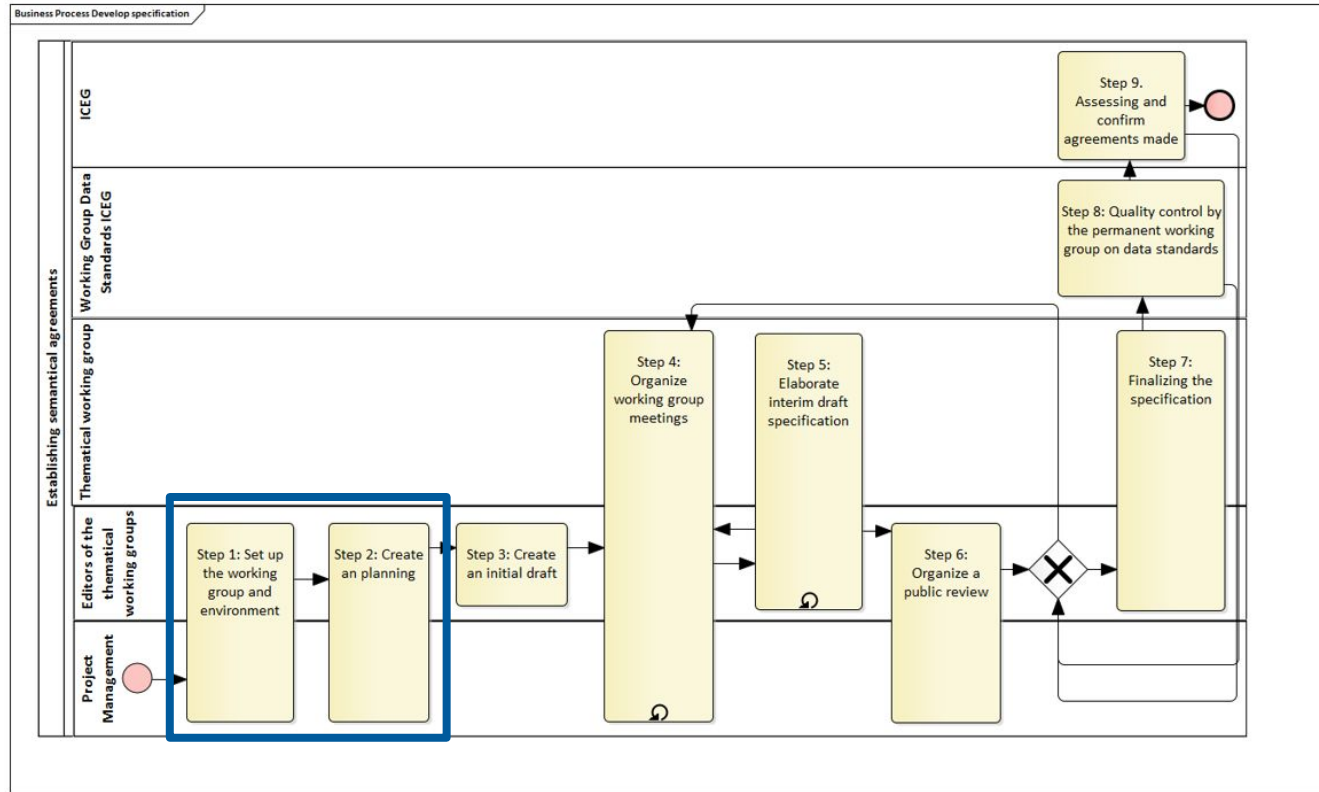
Timeline

Today: Business Workshop



How do we achieve this

Process and methodology defined by ICEG



INFORMATIE
VLAANDEREN



BO
SO
Digital Transformation
Based on the Flemish
Government's Digital
Strategy of April

PROCESS AND METHOD FOR THE DEVELOPMENT OF DATA STANDARDS

Version /// 1.0
Publication date /// 24 may 2019



Use cases



(1) Use case – Extinguishing water sources are objects with a location



Scope

Extinguishing water sources are objects with a location, meaning that they have a set of coordinates attached to them. They have an owner, often a water distribution company or an enterprise with a certain risk, it must be clear who is the owner, so a link can be made with amongst others the Enhanced Crossroad Bank for Enterprises



Added value

By publishing and making their information machine readable, administrations can:

- improve the searchability of hydrants,
- save time in connecting various sources with their corresponding location (in an harmonised manner).

(2) Use case – Extinguishing water need standardised attributes



Scope

In order to make an extinguishing water source meaningful for emergency services, they need standardised attributes such as unique-id, type, capacity, source (e.g. a certain main pipe), hose connection type, availability, accessibility, contact point to inform owner about use of the source so he can take appropriate action...



Added value

An overview of the different aspects of hydrants supporting the operational usages by emergency services, independently from the location in Belgium.

(3) Use case – Management Status



Scope

Some owners, emergency services, municipalities and provinces have a system and process to register the status of the extinguishing water sources (broken, checked-and-working, last-check-date). It must be possible to establish a link with the water source and its management status/follow-up



Added value

An overview of the management status of a water source to enable a better (quality, timely) monitoring and maintenance.

(4) Use case – Standardised symbols



Scope

Create a link between the attributes and establish a standardised symbol to be shown in cartographic interfaces.



Added value

Improved identification in cartographic interfaces



Brainstorming exercises:

1. Use Cases

Which other use cases our specification should cater for?

2. Key Concepts

Are our given example concepts relevant and which other key concepts should be added?

3. Additional sources

Can you think of any useful sources that could help us build the specification? Please indicate it in the Mural with a link to the documentation (where possible)

[Go to the Mural](#)

Starting point

- NGI-IGN
 - Proof-of-concept: a national dataset of hydrants in Belgium, for the emergency services.
 - Uniform and shared cartography for the Emergency Services 2.0
- OSLO, Flanders
 - [OSLO Brandleiding](#) (Wegen en Verkeer)
 - [OSLO Openbaar Domein](#)
 - [AWV OTL](#)
- INSPIRE (34 spatial data themes), European Commission
 - D2.8.III.6 Data Specification on Utility and Government Services – Technical Guidelines

Do you have any additional sources that we could use? Please share them in the chat and or MURAL.



Break

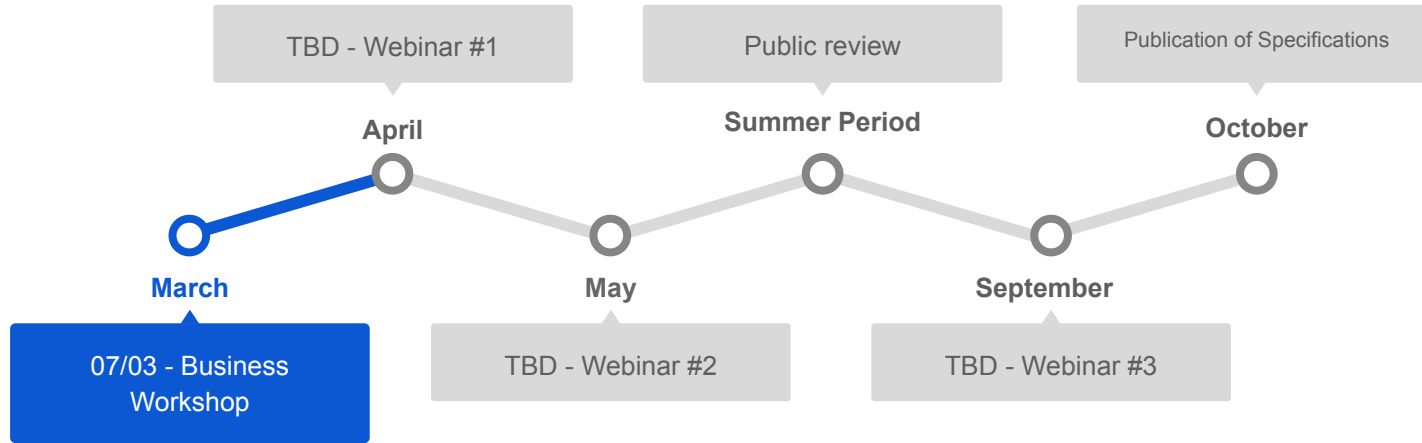


Next steps



Timeline

Today: Business Workshop



Next steps – In the meanwhile...



Designate a validation committee, composed of identified stakeholders to ensure parties are present to meetings and requirements are subsequently expressed



Onboard domain experts from the relevant public administrations in the Working Group



Process the input from the brainstorming exercise



Circulate the main findings/report of this workshop. Feedback is appreciated!



Further research and prepare the first thematic workshop, e.g. by mapping the information identified with the sources



Capture further input through GitHub!

Feedback & collaboration



Feedback can be provided by email to the following people:

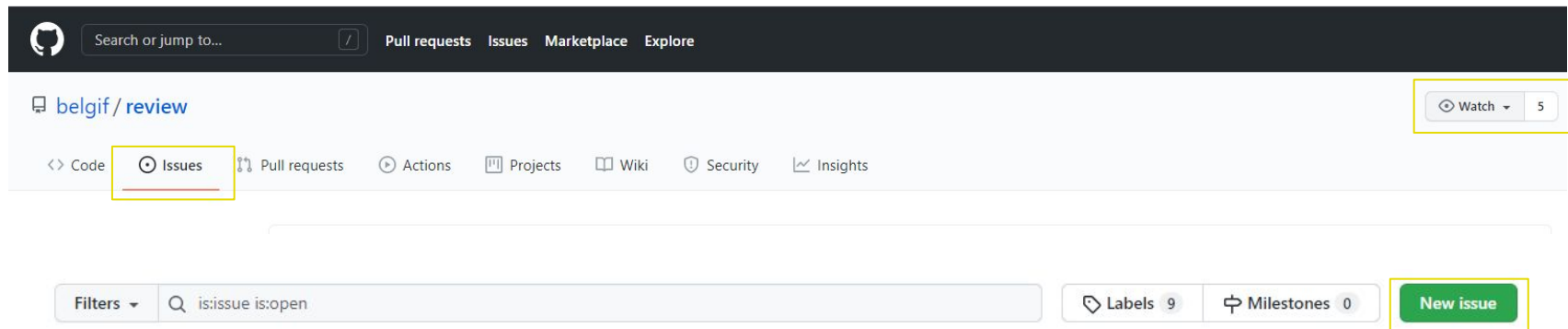
- christophe.bahim@pwc.com
- vincent.feremans@pwc.com



Feedback/input can be provided through [GitHub](https://github.com/belgif/thematic/issues):
<https://github.com/belgif/thematic/issues>

Don't hesitate to watch the activities!

How to watch GitHub issues log?



Are there any questions left?





Thanks!

