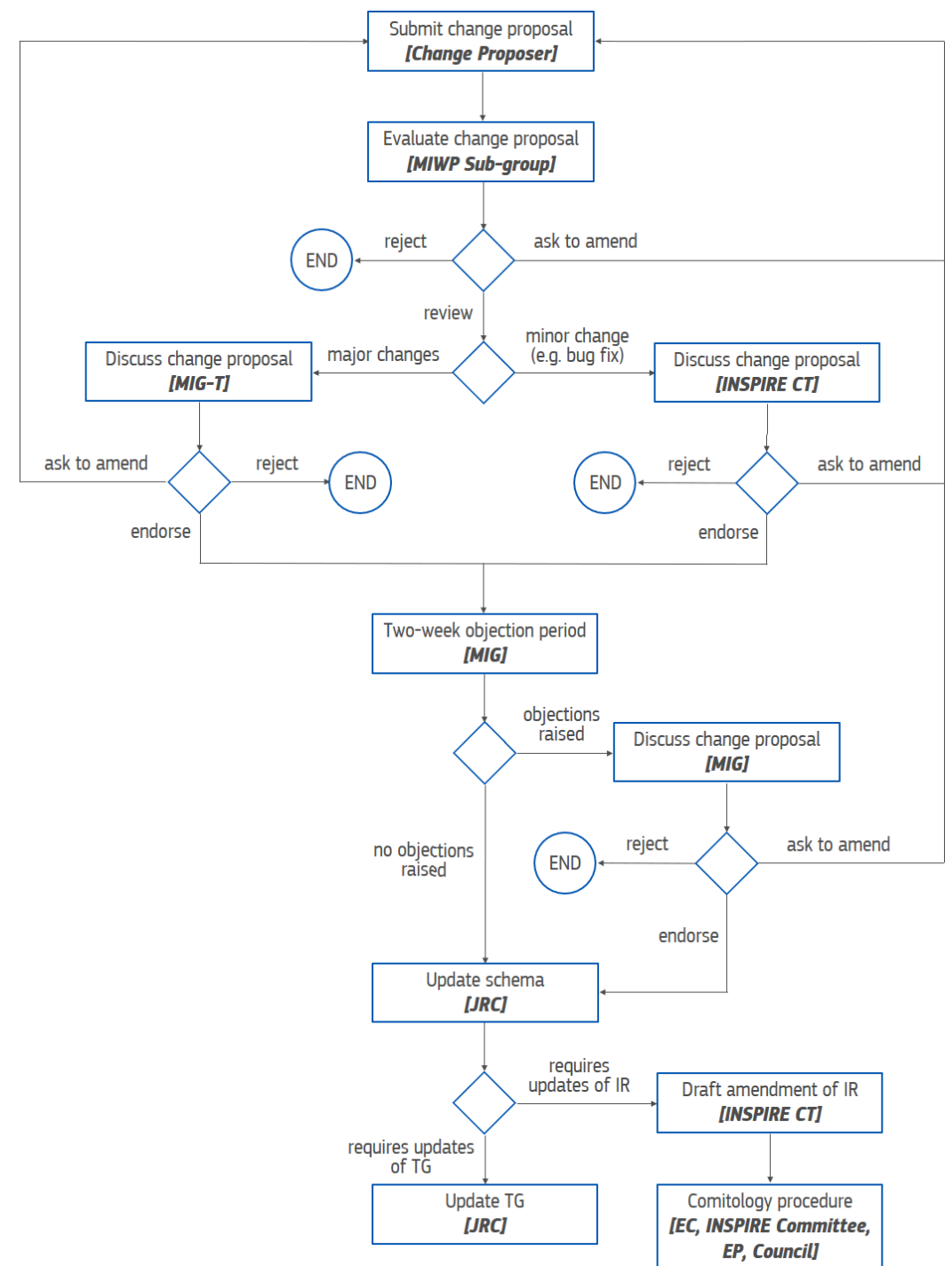# INSPIRE on GitHub: INSPIRE Artefacts

JRC INSPIRE Team
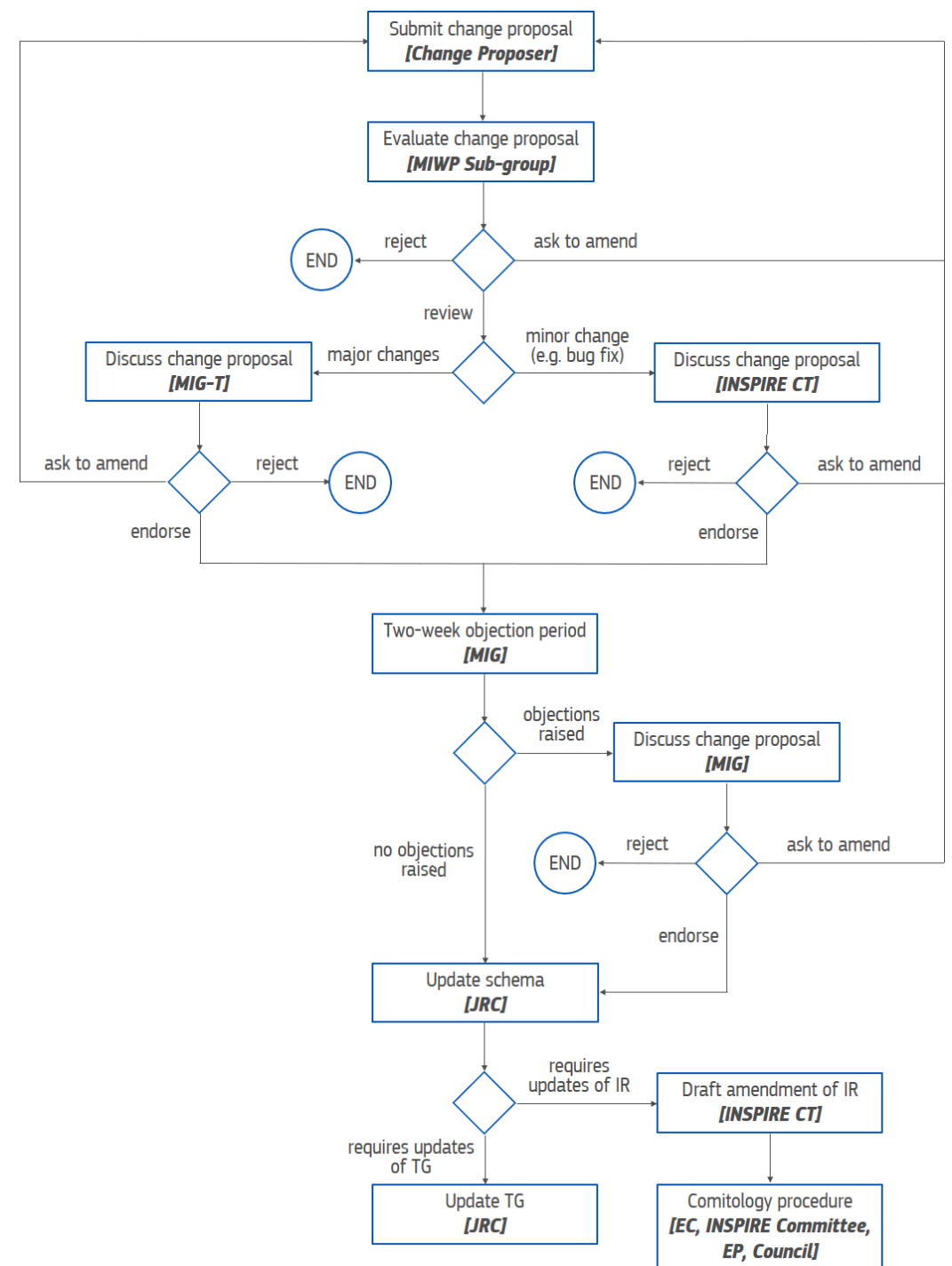
65th MIG-T meeting – April 15-16, 2021

Governance of INSPIRE artefacts

- Where we left:
  - governance approach presented at the last MIG-T meeting (for INSPIRE schemas)
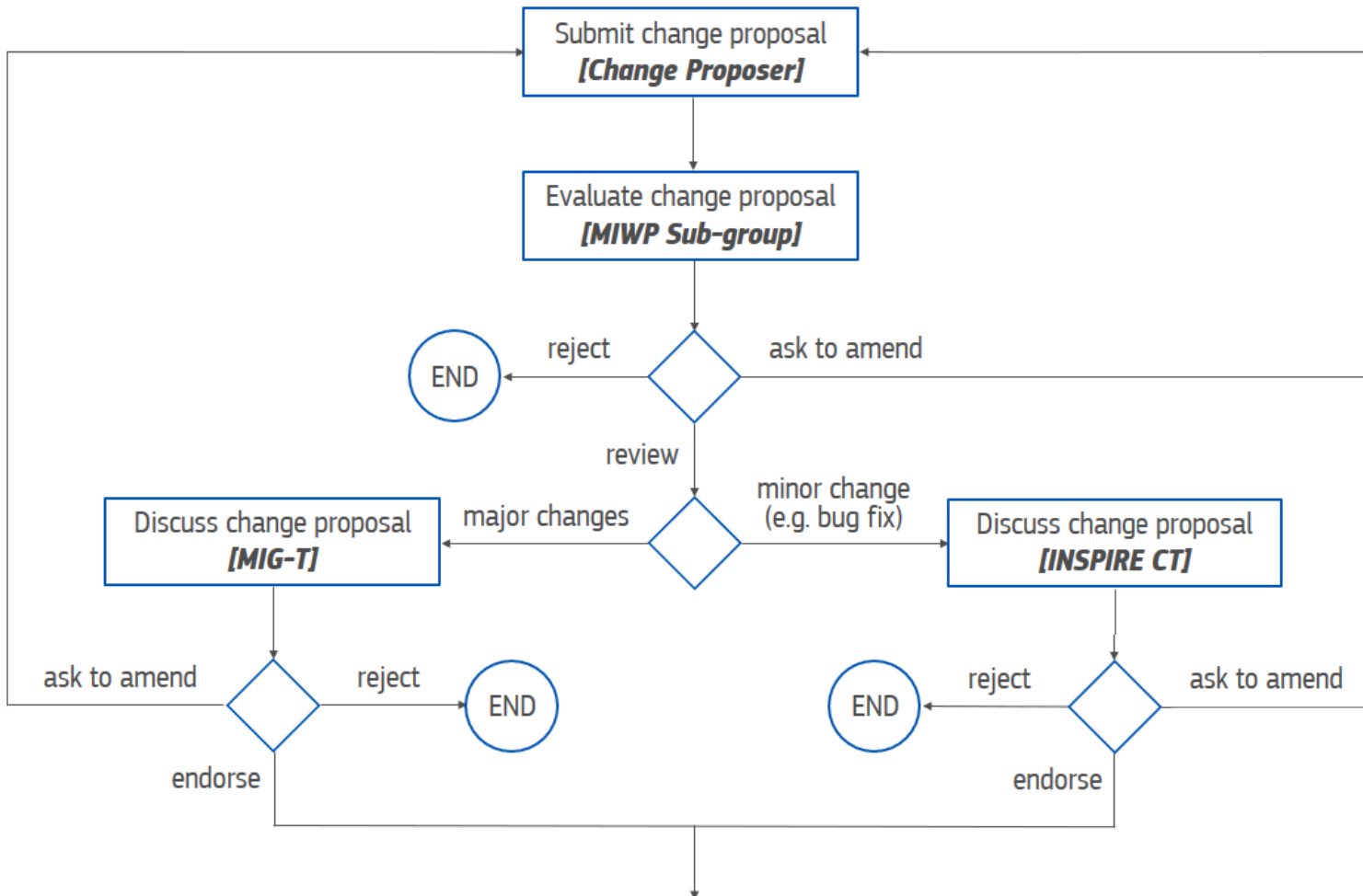
Governance of INSPIRE artefacts

- Where we left:
  - governance approach presented at the last MIG-T meeting (for INSPIRE schemas)

- What is new:
  - Sub-group for Action 2.3.1
  - new INSPIRE helpdesk facilitators
  - release plan
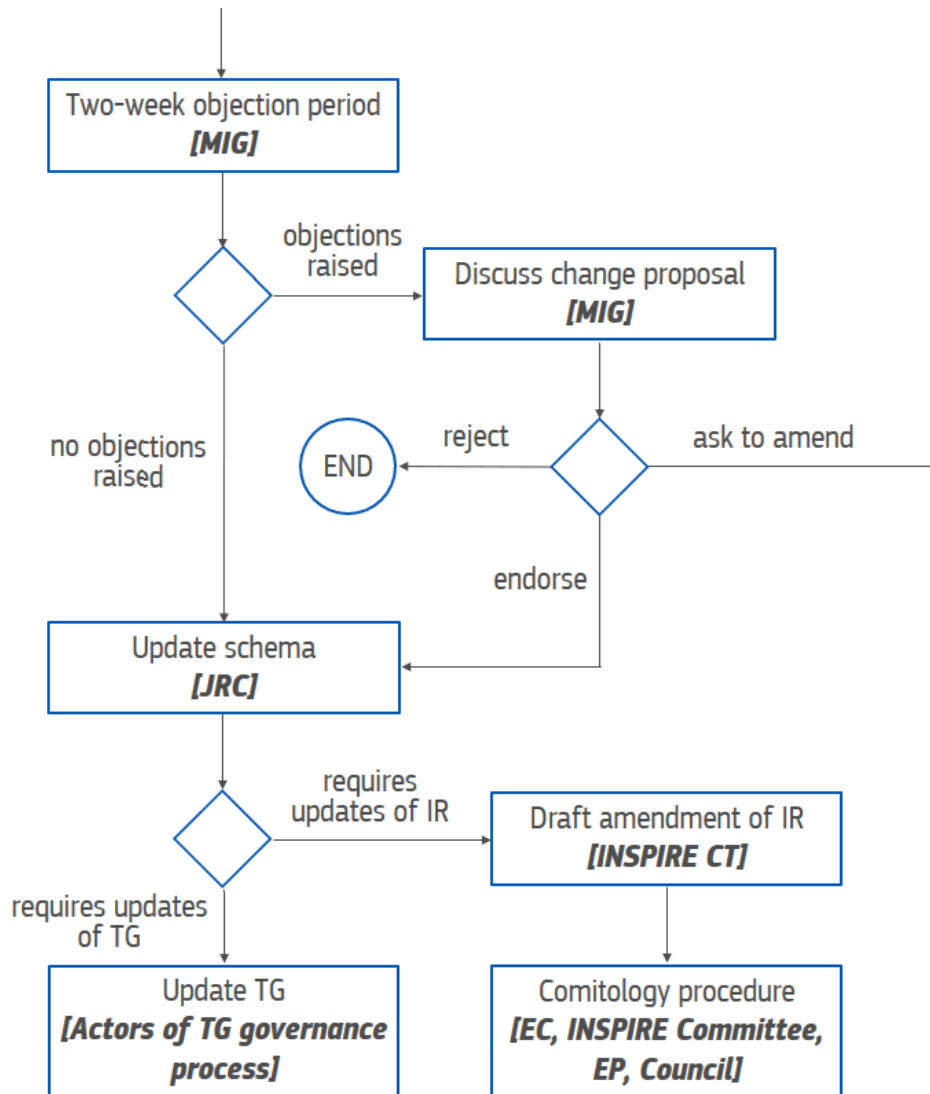 - (partial) operationalisation of the approach using GitHub

Governance approach (for INSPIRE schemas)

- **Change Proposer** submits a change proposal:
  - need for the change, description & impact
- **MIWP Sub-group** (with **Helpdesk facilitators**) evaluates change proposal:
  - check that proposal is correct, clear and detailed
  - reject, ask to amend or accept
  - pass it to the next actor: INSPIRE CT for minor changes, INSPIRE MIG-T for major changes
- **INSPIRE CT** & **INSPIRE MIG-T**:
  - reject, ask to amend or endorse

Governance approach (for INSPIRE schemas)

- **INSPIRE MIG** has 2 weeks to raise objections:
  - if objections are raised, discuss proposal and reject, ask to amend or endorse
  - if objections are not raised, go to next step
- **JRC** updates schema:
  - based on whether TG and/or IR also require changes
- **JRC** updates TG (based on their own governance approach)
- **INSPIRE CT** makes a draft amendment of IR
- **EC**, **INSPIRE Committee**, **EP** & **Council** to formalize the amendment of IR

Operationalisation of the approach – GitHub

- New repository for INSPIRE schemas: https://github.com/INSPIRE-MIF/application-schemas
  - application schemas

application-schemas

⎇ 0   ☆ 0   ⓘ 0   ⇄ 0   Updated yesterday

⎇ main ▾	application-schemas / schemas /		Go to file	Add file ▾	⋯

Lukasz Ziemba Add schemas		7785820 24 days ago 🕑 History
..		
📁 ac-mf	Add schemas	24 days ago
📁 act-core	Add schemas	24 days ago
📁 ad	Add schemas	24 days ago
📁 af	Add schemas	24 days ago
📁 am	Add schemas	24 days ago
📁 au	Add schemas	24 days ago

European Commission

Operationalisation of the approach – GitHub

- New repository for INSPIRE schemas: https://github.com/INSPIRE-MIF/application-schemas

  - application schemas
  - README file

application-schemas

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README.md

INSPIRE XSD application schemas

The purpose of this repository is to manage the changes to the INSPIRE XSD application schemas (hereafter INSPIRE schemas).

The official location of the INSPIRE schemas — to be used within the INSPIRE resources — is, and will remain, https://inspire.ec.europa.eu/schemas. This repository, which is setup within Action 2.3 of the INSPIRE MIWP 2021-2024, is only a means to facilitate the change management process of the INSPIRE schemas.

Change proposals to the current version of the schemas can be proposed and discussed in the issue tracker of this repository. These change proposals are then subject to the specific governance and release process, whose workflow and actors involved are detailed in this document.

Please follow our Code of Conduct anytime you interact with the INSPIRE community in this space.

European Commission

Operationalisation of the approach – GitHub

- New repository for INSPIRE schemas: https://github.com/INSPIRE-MIF/application-schemas

  - application schemas

  - README file

  - document explaining:

    - governance process for INSPIRE schemas

    - release plan for INSPIRE schemas

    - how these are managed using GitHub artefacts: issues, labels, pull requests, releases
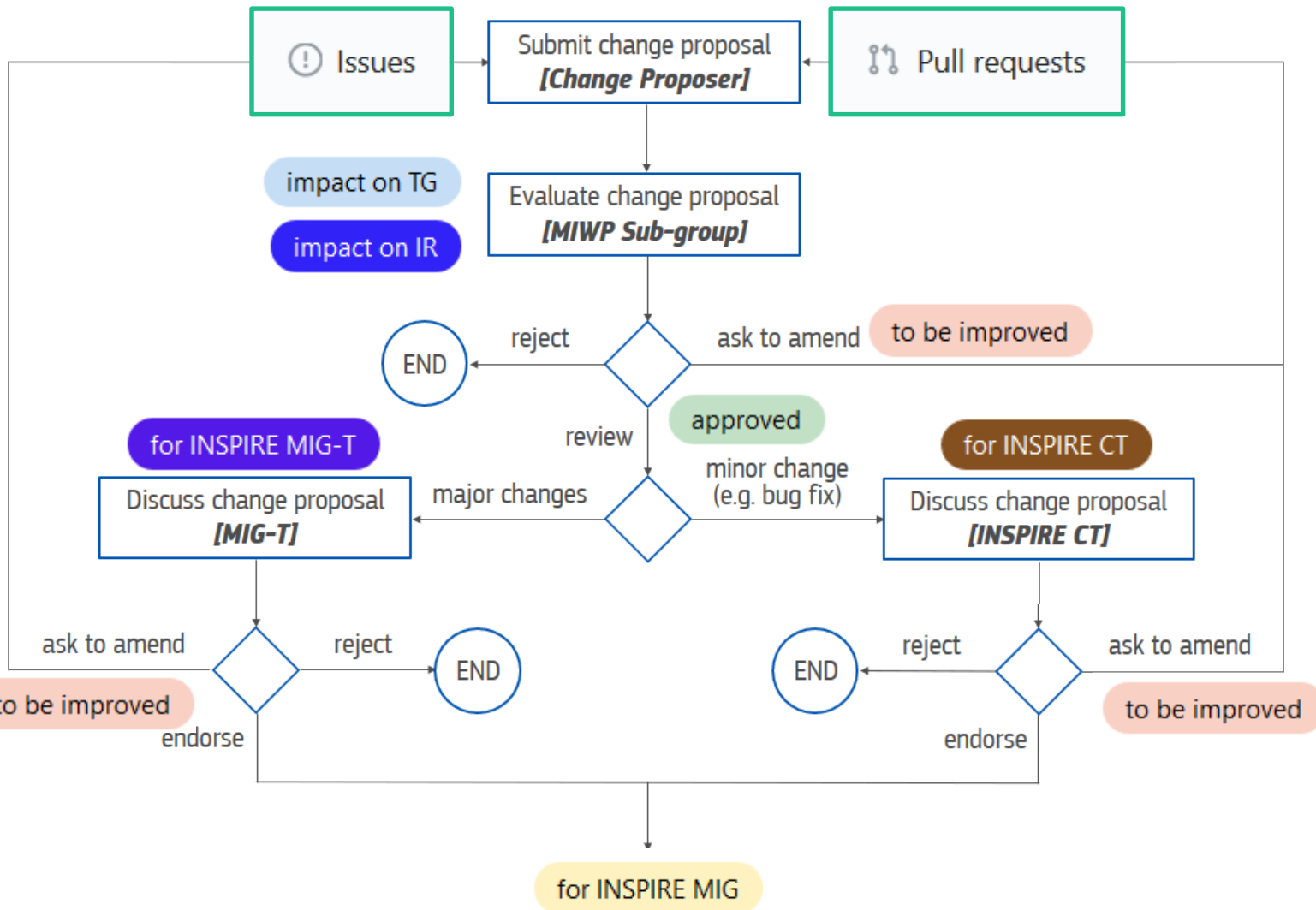
application-schemas

⑂0 ☆0 ⓘ0 ⑂0 Updated yesterday

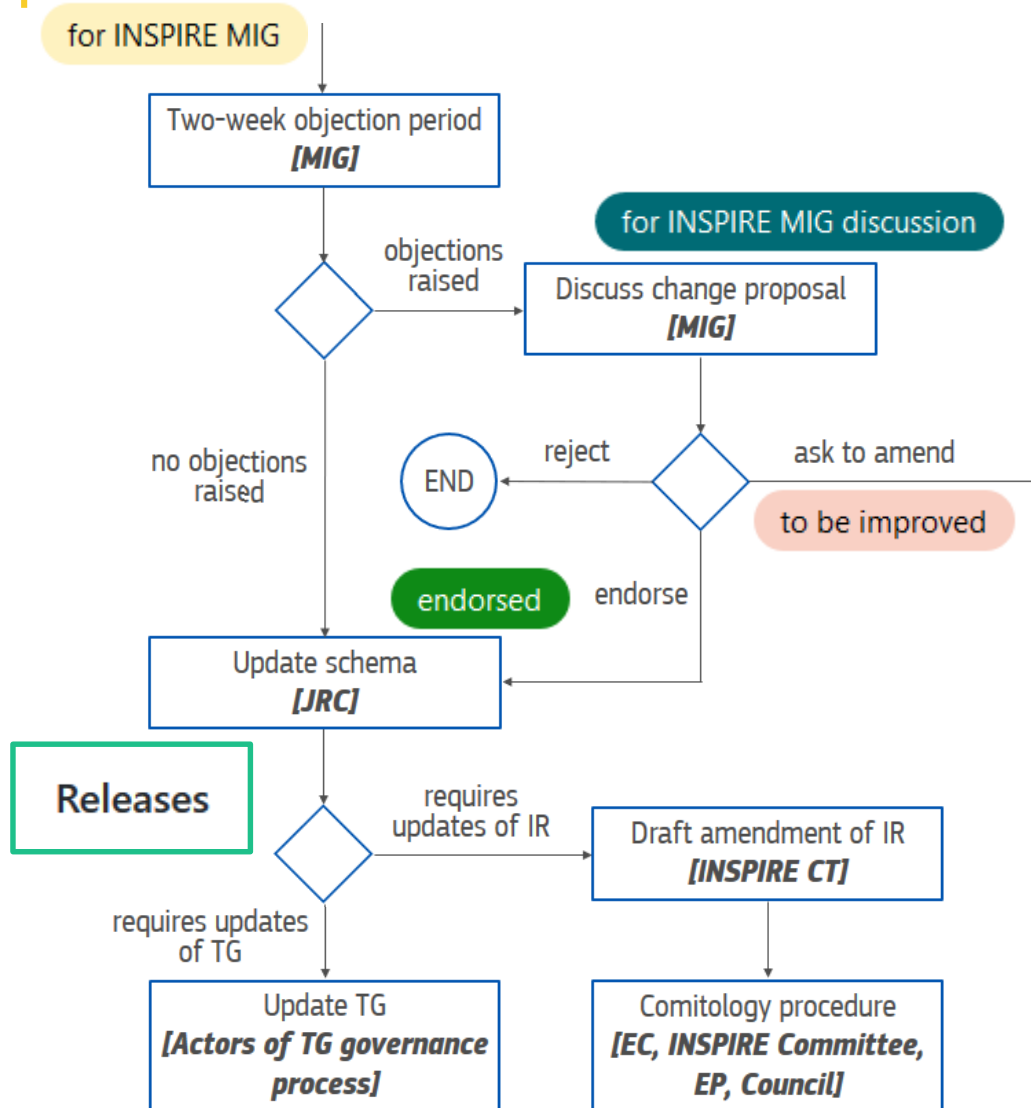# Management of changes to the INSPIRE schemas (UML models and XSD schemas)

This document describes the approach to be adopted for the management of changes to the INSPIRE schemas, meant as the combination of UML models and XSD application schemas. It covers the whole process from the initial stage of change proposal up to the final stage of endorsement and change implementation into a new release. It defines actors, responsibilities and timelines for each stage of the process, and the GitHub artefacts (issues and labels) to be used in each process.

Governance approach (for INSPIRE schemas)

- **Change Proposer** submits a change proposal:
  - need for the change, description & impact
- **MIWP Sub-group** (with **Helpdesk facilitators**) evaluates change proposal:
  - check that proposal is correct, clear and detailed
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Governance approach (for INSPIRE schemas)

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- **JRC** updates TG (based on their own governance approach)
- **INSPIRE CT** makes a draft amendment of IR
- **EC**, **INSPIRE Committee**, **EP** & **Council** to formalize the amendment of IR

Release plan (for INSPIRE schemas)

- New repository for INSPIRE schemas: https://github.com/INSPIRE-MIF/application-schemas

application-schemas

⑂0 ☆0 ⊙0 ⇄0 Updated yesterday

Release process

The release of the endorsed changes to the INSPIRE schemas happens twice a year and it is scheduled to take place on **January 31** and **July 31**. This means that:

- all the changes endorsed by the MIG (either after the two-week scrutiny or during the MIG meeting in June) between February and July will be included in the release published on July 31;
- all the changes endorsed by the MIG (either after the two-week scrutiny or during the MIG meeting in November) between August and January will be included in the release published on January 31.

In addition to the scheduled releases, hotfix releases of the schemas, i.e. releases that fix critical bugs, might be released at any time.

All the releases, including a full changelog listing the changes made, are published (and will remain available) in the Releases page of this repository. After each release, the INSPIRE schemas at https://inspire.ec.europa.eu/schemas are updated accordingly.

Each release will be identified by a sequential number, but the versioning of the INSPIRE schemas will be managed separately.

Operationalisation of the approach – GitHub

- New repository for INSPIRE TG: https://github.com/INSPIRE-MIF/technical-guidelines

  - README file

technical-guidelines

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README.md

The purpose of this repository is host the INSPIRE Technical Guidance documents (hereafter INSPIRE TG) and manage the changes to them. This repository is setup within Action 2.3 of the INSPIRE MIWP 2021-2024.

The INSPIRE TG will be converted from the current pdf format to the markdown format and published in this repository. The first TG will be available soon.

A governance and release process for managing the changes to the INSPIRE TG will be made available soon, and will be similar to the one for the INSPIRE XSD application schemas. Change proposals to the current version of the INSPIRE TG can be proposed and discussed in the issue tracker of this repository. These change proposals will then be subject to the specific governance and release process, once available.

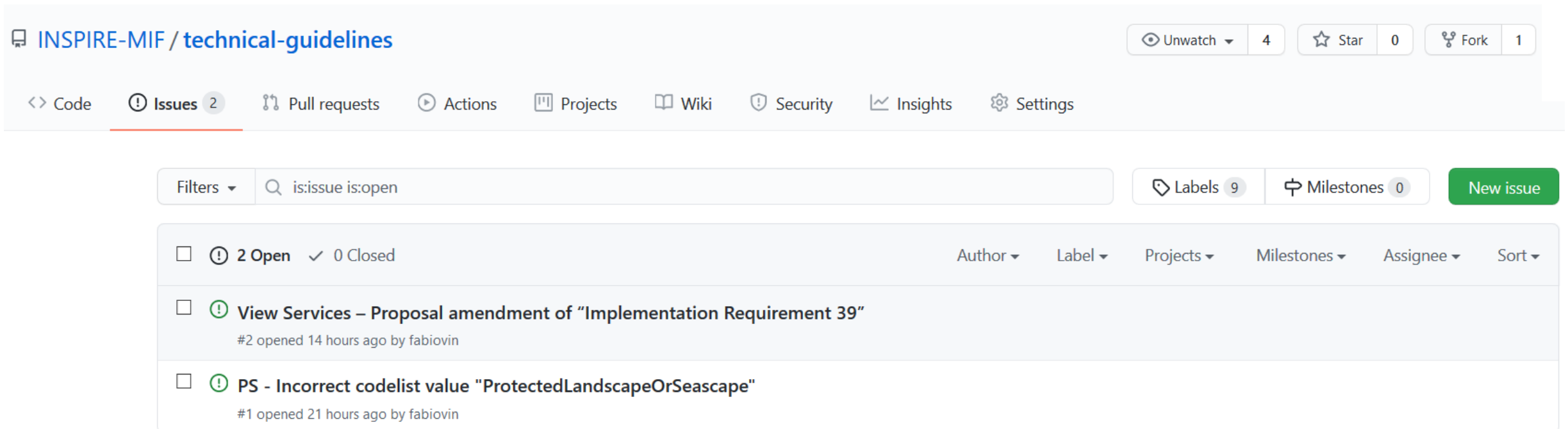Please follow our Code of Conduct anytime you interact with the INSPIRE community in this space.

Operationalisation of the approach – GitHub

- New repository for INSPIRE TG: https://github.com/INSPIRE-MIF/technical-guidelines

technical-guidelines

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- some first change proposals already available
    - derived from issues initially reported in the Validator/Registry helpdesk

🖥 INSPIRE-MIF / **technical-guidelines**   👁 Unwatch ▾ 4   ☆ Star 0   ⑂ Fork 1

<> Code   ⓘ Issues 2   ⇄ Pull requests   ▶ Actions   ▦ Projects   📖 Wiki   ⓘ Security   ⬈ Insights   ⚙ Settings

Filters ▾   🔍 is:issue is:open   🏷 Labels 9   ⬡ Milestones 0   New issue

☐ ⓘ **2 Open**   ✓ 0 Closed   Author ▾   Label ▾   Projects ▾   Milestones ▾   Assignee ▾   Sort ▾

☐ ⓘ **View Services – Proposal amendment of "Implementation Requirement 39"**
        #2 opened 14 hours ago by fabiovin

☐ ⓘ **PS - Incorrect codelist value "ProtectedLandscapeOrSeascape"**
        #1 opened 21 hours ago by fabiovin

Conversion of INSPIRE TG

- Conversion of the INSPIRE TG in a format manageable through GitHub under testing with different tools:

  1. **Word to Markdown converter**
     - Web service: https://word2md.com/

  2. **Pandoc** - a universal document converter
     - https://pandoc.org
     - Supports multiple input and output formats, including Word, Markdown (various flavours, including GitHub) or **AsciiDoc**

  3. **ASPOSE Word to Markdown Converter**
     - Web service: https://products.aspose.app/words/conversion/word-to-md
     - Based on Aspose.Words for .NET library: https://products.aspose.com/words/net/conversion/docx-to-md

Conversion of INSPIRE TG

- The Word document of metadata TG 2.0 was used to test the conversion tools.

- Outcome available at https://github.com/INSPIRE-MIF/technical-guidelines/tree/main/test

- Markdown does not natively support automatic numbering of headings, which may cause problematic maintenance of the documents.

1. **Word to Markdown converter**
   - Unable to convert due to error.
2. **Pandoc**
   - A lot of headings were not identified and not formatted as such.
   - Internal references, such as TOC, work.
3. **ASPOSE**
   - Most headings formatted correctly.
   - Internal references, such as TOC, do not work.

Thank you!

✉ marco.minghini@ec.europa.eu

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Keep in touch

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