

# Migration from Indico

- ▶ 1.x to Indico 3.x for ESRF/Tango Community

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**s<sup>2</sup>innovation**  
Software solutions



# 15+ engineers with expertise on

- Control systems engineering:
  - Open-source SCADA frameworks,
  - PLC
- Software development:
  - Python, C++, Java, .Net, HTML/JavaScript/CSS/REACT, Matlab
  - **Tango Controls**, EPICS, WinCC OA, FESA,
- Documentation,
- DevOps,

# Main partners:



# Introduction

This presentation shows a migration process of Indico from version 1 to newest version 3 at European Synchrotron Radiation Facility (ESRF) for Tango Controls Community.

Topics:

- Benefits of migrating to Indico v3
- Migration process to version 2
- Migration process to version 3



# Introduction

- Reason for migration: The recent version has active support
- No other problems caused migration
- Migration process was performed in 2021
- No outstanding problems during migration

# Benefits of migrating to Indico v3

Benefits of the newest version:

- Increased efficiency with Python 3
- Improved user interface
- Quality-of-life improvements
- New search system based on Elasticsearch

# Migration process to version 2

Direct migration from Indico v1 to v3 is not possible and it requires at least version 1.2 to avoid data loss

- Move the old Indico server to a new host machine
- Install Indico v2
- Resolve a pyatom issue
- Install requests-oauthlib to fix "import error of name bytes\_type"
- Run the indico-migrate script to move ZODB databases to 2.0
- Ensure assets are placed in the correct directory with the correct permissions.

# Migration process to version 3

- Dump database content for backup
- Install Indico v3
- Run migrations
- Modify `indico.conf` to serve old files from a legacy folder



# Conclusion

- Migration was smooth with no major issues
- Required documentation is clear and easy to follow
- The new version has a wide range of features and enhancements
- Users will notice the improvements
- New system enables better event management
- Users will have a better experience with ESRF.