USPI Business Plan

Results of 2024 & Plans & budget for 2025

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Purpose

- Share results of 2024 and key activities and expectations for 2025

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For more information: www.uspi.nl & stichting@uspi.nl

USPI Business Plan

Background – Role, Organisation, Members

Background: USPI Mission, Vision and Key Roles

Mission

"To develop, maintain and promote the use of international standards and best practices for product and plant life cycle information management"

1. With the aims:
   - To achieve quality information required in the delivery of products and installations that are safe, reliable and environmentally friendly.
   - To achieve shorter project delivery time, lower costs, and support innovation.
2. With the intent:
   - To seek synergies and exchange of knowledge with the other sectors ship, Aeronautics, "Building" through focused Special Interest Groups created on basis of mutual requirements

Vision

"Companies in the process industries shall be able to share and/or exchange electronically the information needed to design, build, operate and maintain process and power plants using internationally accepted standards".

Key Roles

1. Platform function
   - To provide a platform for members to exchange problems, developments, views
   - To contact and involve other companies
   - To cooperate with other consortia both within in the Netherlands and abroad such as Japan, USA.
2. Strategy & Vision for life cycle data
   - Setting the global direction for life cycle data.
   - Taking ownership for the Next Generation Scenario.
   - Deepen the NGS into branches
3. Implementation of life cycle data "frameworks"
   - Providing frameworks and methodologies for life cycle data.
   - Specification of requirements to software vendors.
   - Initiating and stimulating pilot and company projects.
   - Sponsor life cycle data developments.
4. Knowledge centre
   - Provide readiness assessment to industry branches and industry as a whole.
   - Offer workshops, training, certification
   - Promote life cycle data initiatives e.g. running conferences, publishing articles, distributing newsflashes.
5. International standards
   - Develop of international standards
   - Maintenance of international standards
   - Enhancement of international standards

USPI MoU Collaboration Partners & Objectives (1)

MOU Partner	Objectives	Deliverables clear	Active engagement
CFIHOS Capital Facilities Information HandOver Specification	Ensure FL3DMS and CFIHOS can be used in an integrated way in projects and assets. Ensure that CFIHOS Tag/Equipment classification is consistent with USPI Industry Tagging Philosophy.	Yes – use CFIHOS methodology and content to express 3D Model data requirements. Alignment of tagging philosophy with CFIHOS classes – level of definition	Yes – ongoing; at virtual and physical project meetings.
Standards Norway	• Align on content on 3D Model standards • Provide feedback on the application of FL3DMS by Standards Norway in its current standards work, to improve the next version of FL3DMS. • Participate in and contribute to one or more of the three workstreams of FL3DMS • Define configuration requirements for software as input to both FL3DMS and CFIHOS • Implement joint hosting and publication of the 3D Model Requirements Matrix by USPI and Standards Norway	Yes, we work in an integrated way and seek to drive consistency between the national Norwegian 3D Standard and FL3DMS	Yes – two representatives from Standards Norway participate in the FL3DMS meetings
DEXPI Data Exchange in the Process Industry	Align on content for P&ID and 3D Model Data Consistency of overlapping parts of the two standards.	Yes Alignment of classification of objects used in FL3DMS and DEXPI.	Yes – one representative from DEXPI participates in the FL3DMS meetings
Construction Industry Institute®	Embed relevant data requirements for Advance Work Planning in 3D Model standards	Yes - The CII AWP data requirements for data authored in 3D Models or associated tools will be added to the FL3DMS spec.	Yes, ad hoc as required.

USPI MoU Collaboration Partners & Objectives (2)

MOU Partner	Objectives	Deliverables clear	Active engagement
buildingSMART International Alliance for Interoperability	Alignment on requirements for 3D models, including use of Industry Foundation Classes (IFC) in the process	No – MOU being explored	No – MOU being explored
ENAA Engineering Advancement Association of Japan	▪ to promote CFIHOS in Japanese industry, ▪ to promote conferences and workshops in the domain of engineering information management, and ▪ to share knowledge on ISO standardization, in particular ISO TC 184/SC 4.	Yes	Yes, CFIHOS objective will be reviewed

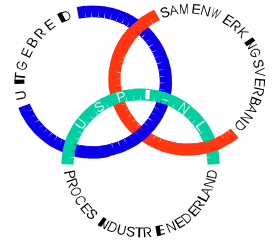
Background: USPI Team

- **Executive Committee**
  - Hugo Belder – Chair (interim)
  - Anders Thostrup – FL3DMS Sponsor,
  - Peter Paul Pruijn – Finance, Tagging Sponsor
  - Leo van Ruijven – Education, ISO 15926 Sponsor

- **Proposed incoming EC member**
  - John Leeflang
  - Tudor Ciubotariu

- **Management Team**
  - Vincent Grondman –administrative lead: Communication, members admin, planning of meetings, events, IT and finance.
  - Paul van Exel - director of ISO standards, convener of ISO 15926, ISO 18136 (nuclear digital ecosystem framework) and supporting other USPI standards development work.
  - Hugo Belder – Project director of FL3DMS project and workstream lead for the standard document and implementation guide.

Background USPI Members



accenture

TECHNIP ENERGIES

REVISIONZ

NRG PALLAS
Nuclear. For Life.

HEXAGON

Assai

AVEVA

MCDERMOTT

SIEMENS

KAIST

Bentley
Sustaining Infrastructure

FLUOR

TotalEnergies

LYB LyondellBasell

BECHTEL

ExxonMobil

bp

TWINTECH

Semmtech

GiZiL

YOKOGAWA

Baker Hughes

opentext™

YARA

versatec

Red-Bag
Engineers Consultants Software

croonwolter&dros

USPI Business Plan

2024 Look back - Deliverables and Financials

Achievements 2024

1. **Safaris – creating awareness about data standards**
    1. Greenhouse Gas Data Supporting Energy Transition – Ian Cornwell
    2. Information Management in Large Capital Facilities – Leo van Ruijven en Paul van Exel
    3. Construction using Advance Work Packaging – with Construction Industry Institute, by Eric Dechoz and Mikitaka Hayashi during MB meeting
    4. ISO19008 Standard Cost Coding System with Andree van der Veen, Ferry Zollner and T David McEvoy during MB meeting

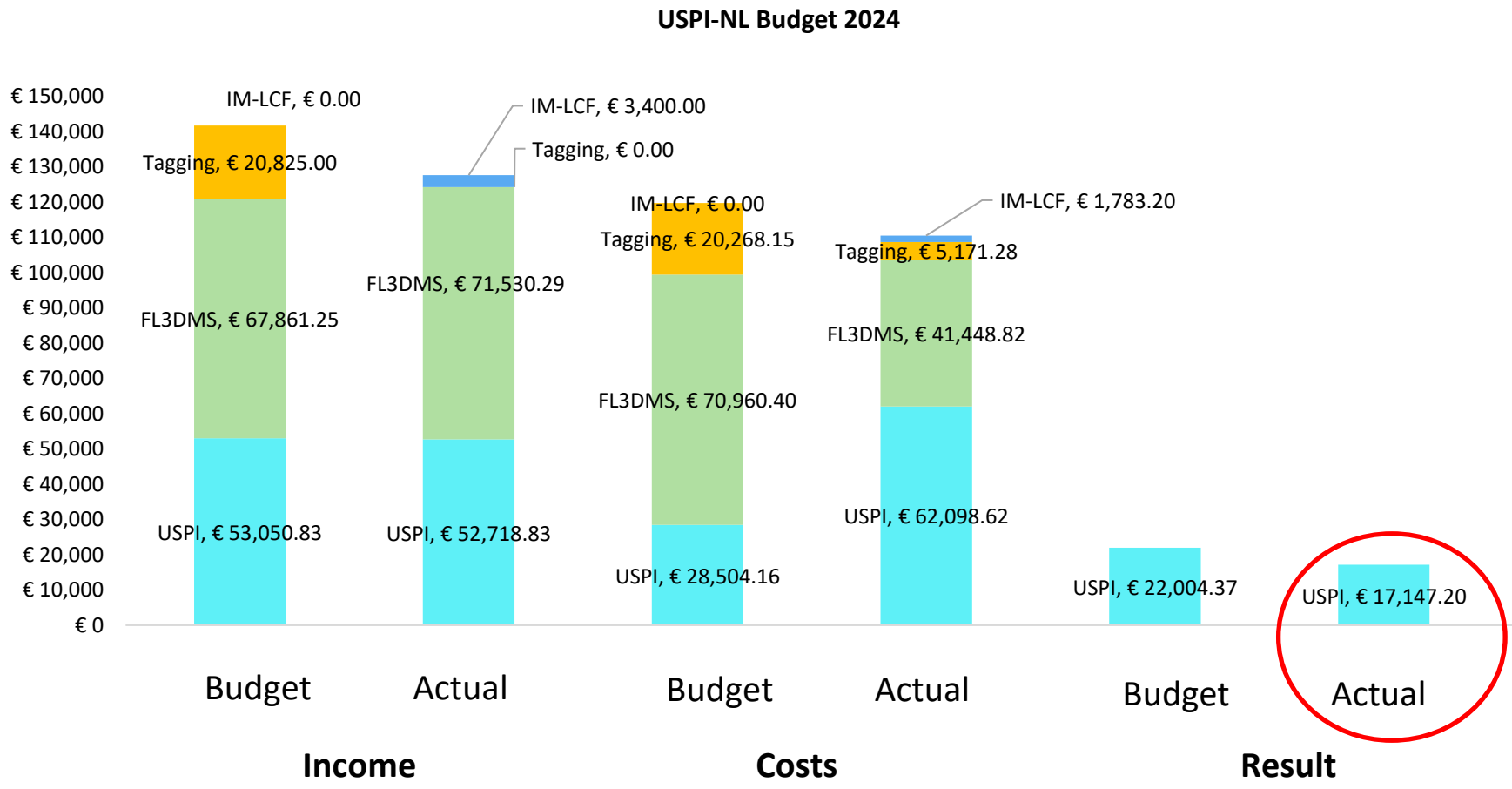
2. **Facilities Lifecycle 3D Model Specification (FL3DMS)**
    1. A ***3D Model Lifecycle Guide***, which helps owner operators understand the activities and decisions needed to specify and manage 3D Models in Projects and Asset such as to derive full value from them from cradle to grave.
    2. The other main delivery for FL3DMS is release 1.2 of the Standard. More information and downloads of FL3DMS can be found here
    3. In the face-2-face meeting in June '24, a prioritisation of topics has led to a roadmap for subsequent Standard releases.

3. **Tagging Philosophy standard**
    1. Workshops on Company procedures, use cases and inventory of standards
    2. Due to personal circumstances, not all planned workshops were held

4. **ISO TC 184/SC 4/WG 3**
    1. **FTF meetings in May (Seoul, South Korea) and October (Stavanger, Norway)**
    2. **ISO 15926: Integration of data**
        1. The **ISO 15926-2 data model** has been reviewed in 2024 by a team of ontology experts.
        2. Published ISO/TS 15926-4 ed3 Reference Data with new sets of data and improved hierarchy. Reached agreement with ISO SMART to do pilot on dereferenceable URIs
        3. Submitted ISO 15926-6 rules for validating reference data in ISO 15926-4. Publication expected in Jan 2025
    3. **ISO 18136** Nuclear Digital Ecosystem
        1. The ISO/DIS 18136-1 Framework has been approved with comments. Publication is expected early 2025.

5. **IM in Large Capital Facilities (named IM-LCF)**
    1. Terms of reference of IM-LCF have been agreed
    2. First 4 workshops of Workshop Series 1: Use of ISO 15926-11 and other international standards to created Common Data Environment (CDE) have been held.

USPI 2024 Budget vs Actual (in €)



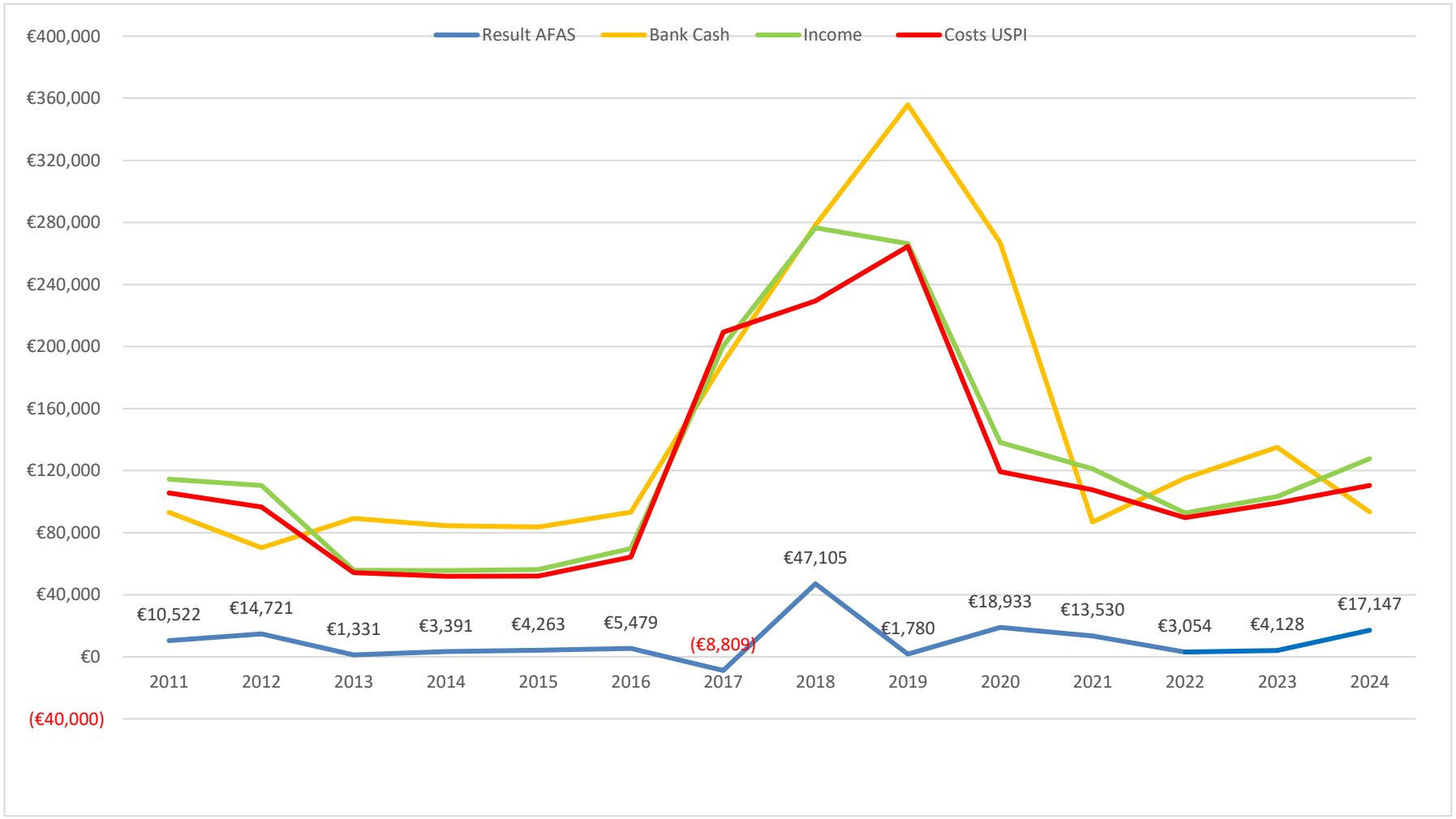
Key points:

Income
- No income Tagging
- More income FL3DMS
- Extra income IM-LCF

Costs
- Less costs FL3DMS

- <u>More admin costs:</u>
- AFAS
- Pension USPI Admin
- Write off old members

Actual balances 2011-2024



USPI Business Plan

2025 Look ahead - Deliverables and Financials

Proposed deliverables 2025

1. **FL3DMS**
   - Deliver FL3DMS R 1.3 scope
     - FL3DMS Implementation Guide
     - 3D Model Data Model & Dictionary consistent with CFIHOS, DEXPI & CII AWP
     - Equipment/skid vendor requirements for 3D model representations
     - As Building Requirements
     - Corrosion Management Requirements
     - Construction Planning data Requirements
   - Deliver 3D model specification checklist for OOs
   - Deliver 3D Catalogue TOR and White Paper
   - Align/map the 3D Model content requirements table to CFIHOS/DEXPI/ISO 15926-4 classes
   - Present the standard at 2 industry conferences
   - Move from 48 to 200 downloads of the standard

2. **Tagging Philosophy standard**
   - Deliver TOR update
   - Deliver Tagging Philosophy initial release
     - Implementation Guide
     - Use cases
     - Tag decomposition
     - Standards landscape

3. **ISO TC 184/SC 4/WG 3**
   - **ISO 15926 series integration of data**
     1. The ISO 15926-2 data model will be updated into ISO 15926-2 ed2 as ontology base and an ISO/TR 15926-200 will be created to provide practical implementation guidance to users of ISO 15926-2
     2. An update of ISO/TS 15926-4 ed4 has started and will be completed by end of 2025 with publication early 2026
     3. A terms of reference for an ISO SMART pilot on dereferenceable URIs will be completed and executed in 2025. This will allow of development and maintenance ISO 15926-4 as per the W3C principles
     4. ISO 15926-6 ed1: rules for validation of reference data of ISO 15926-4 has been published in Jan 2025
     5. An update into ISO 15926-6 ed2 will be considered covering rules for validation of reference data of other parts of ISO 15926-4.
   - **The ISO 18136-1 Nuclear Digital Ecosystem**
     - The ISO 18136-1 Framework for Nuclear Digital Ecosystems will be published early 2025.
     - A plan is created to develop next parts of ISO 18136 covering management methods and guidelines as part of a project under the EU Horizon program

4. **IM-LCF (Information Management in Large Capital Facilities)**
   - The Workshop Series 1: using ISO 15926-11 for creating a Common Data Environment (CDE) will be completed with a draft final report.
   - The Workshop Series 2: Data Cleansing of Engineering and supplier data for inclusion in a CDE will start in 2025 with some 7 workshops.

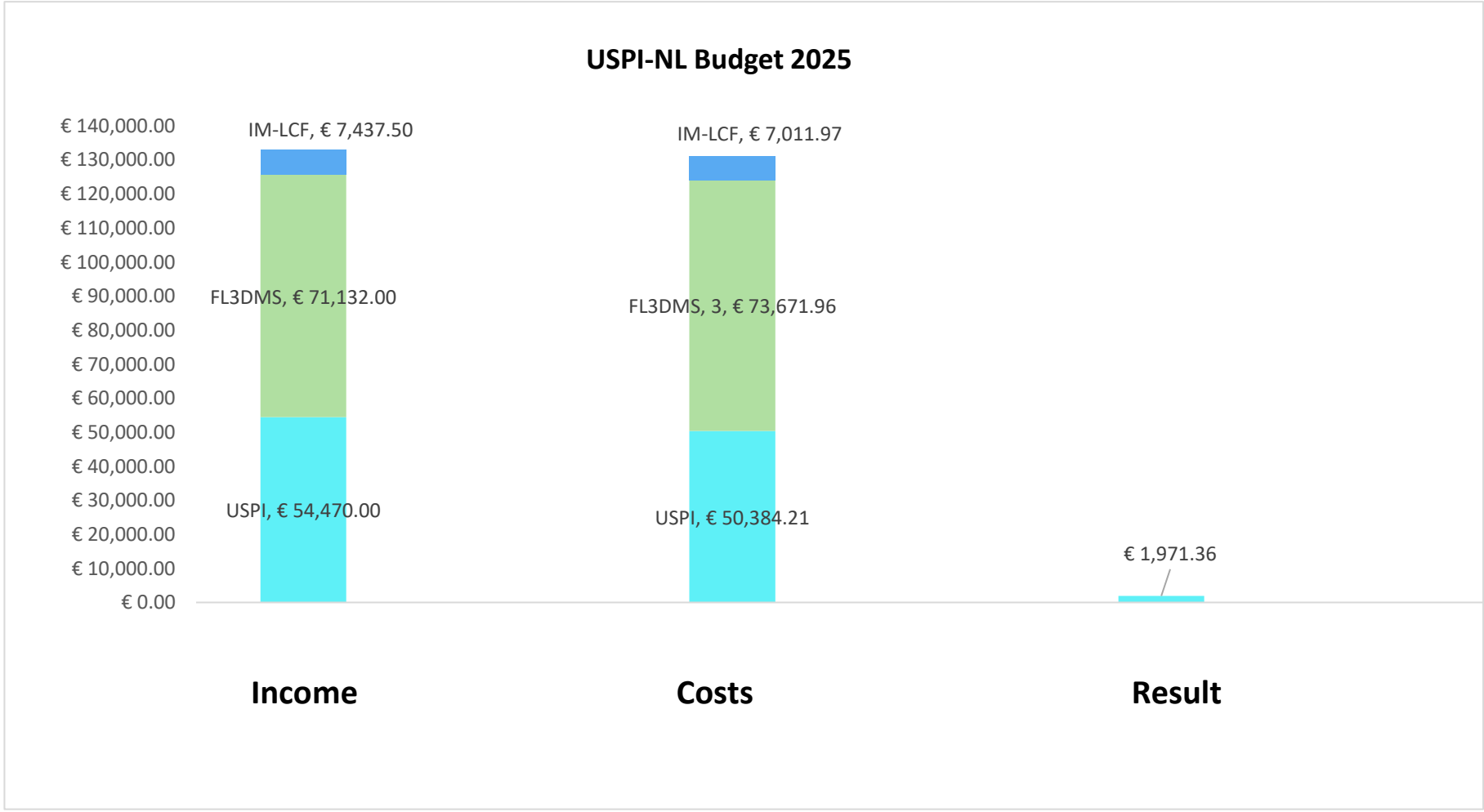
Proposed Safaris and Workshops 2025

Day	Event	Organizers
Feb 14, 14:30 CET – 16:00 CET	Use and benefits of 3D models in commissioning	Paul Turner, Industrial Commissioning Association
April 3rd, 14:30 CET – 16:00 CET	Construction Work Management: a different approach of AWP	Saber Belgith, CEO KonnectXD / Twintech
Apr/May	Safari: Equipment Information Requirements with IOGP (JIP33, JIP36) and Standards Norway (EPIM STI)	Jason Roberts, Anne Devaharan, Peter Townson, Bjorn Berli

Scheduled EC and Project meetings 2025

Meeting and Cadence	Activity / Project	Focus / Workstream & Objectives	Lead
First Tuesday of every month 16:00 - 17:30	**USPI**	USPI Executive Committee: USPI Business Plan Delivery	Hugo
Thursday (Monthly, 3rd) 14:00 PM - 15:30 PM CET	**FL3DMS**	General meetings	Hugo
Thursday (Monthly, TBD)	**FL3DMS**	Marketing	Hugo
Tuesday (bi-weekly, TBD)	**FL3DMS**	Catalogue Management	Ivan & Tony
Thursday(bi-weekly, 2nd and 4th of month)	**FL3DMS**	Data model	John
Thursday (bi-weekly, 2nd and 4th of month)	**FL3DMS**	Specification & Implementation Guide	Hugo
Tuesday (bi-weekly)	**Tagging**	General meetings - Sprints	Peter Paul
Monthly (2nd Tuesday)	**IM-LCF**	IM-LCF Workshop Series 2: Data Cleansing of Engineering and supplier data	Paul & Leo
Quarterly	**ISO**	ISO TC 184/SC4/WG3 Plenary sessions	Paul

Budget 2025



Key points:

- 2 Additional members for USPI and FL3DMS added for 2025.
- Potential income high risk is 5K

Close

- Thank you for your attention!

- Points of contact:
  - FL3DMS (hugo.belder@uspi.nl)
  - Tagging (peter.paul.Pruijn@fluor.nl)
  - ISO (paul.vanexel@uspi.nl & leo.vanruijven@croonwolterendros.nl)
  - IM-LCF (leo.vanruijven@croonwolterendros.nl & paul.vanexel@uspi.nl)

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