We are a European Technology Design House

Revenue

30+ M€ (2019)

Huldians

400+

Offices

Finland
Espoo, Vantaa, Hyvinkää, Tampere, Jyväskylä, Kuopio, Kotka, Vaasa, Seinäjoki, Oulu, Ylivieska

Czech Republic
Praha, Pilsen
Success Stories Where the Physical and the Digital World Meet

Digital Innovations
Product Development
Safety & Security
Design
Digital Innovations

- Digital transformation management
- Service and Business Design
- Software applications
- Utilizing and managing information

New Business Models & Innovations
Efficiency & Cost Savings
Competitive Advantage
Services

Product Development

- Mechanical Design
- Embedded Software
- Electronics Design
- Electrical Design
- Software Design
- Package Design
- Technical Analyses
- Technical Documentation
- Method Design

End-to-End Solutions
Technology Expertise
Design & Functionality
Trusted development partner
Services

Safety & Security

• Digital Security
• Functional Safety
We Impact the World in Different Industries

Defence & National Security
Medical Devices
Healthcare
Test and Measurement
Machine & Vehicles
Railway
Space
Intelligent Devices
Lifting & Hoisting
Marine
Space software and systems with 30 years of experience
Exceptionally highly educated and experienced people

Over 400 working years’ experience in international space projects.
Space applications

- Onboard Software
- Ground Processing
- ISVV
- Test Software & Simulations
- Development & Validation Services
SSF established in 1989

- GOMOS PF
- GOCE, SSF’s 1st Central-SW
- Herschel and Planck CDMU
- MetOp Central-SW
- GAIA Central SW
- EXOMARS Rovers RSI
- Plato Central SVI

In 2000:
- GNSSEG Segment
- OMI Processing Facility
- GALILEO ASW
- Debic-2 on ISS
- Bebicoloembo SIXS/MIXS ASW
- Sentinel-4
- Sentinel-5

In 2010:
- Industries

In 2020:
- Huld
17 launched satellites carrying software designed or verified by Huld and 15 under work or waiting to be launched.
GOCE PASW (Airbus DS)
- Huld has developed the Platform Application Software (PASW) for ESA's Gravity and Ocean Circulation Explorer (GOCE) satellite
- Includes unique and complex attitude control system called Drag-Free Attitude Control (DFAC)
- SW Criticality Cat B

Herschel-Planck ASW (Thales)
- Central Computer Application SW development for 2 twin satellites
- SW Criticality Category B

MetOp-SG ROIC SW (RUAG)
- ROIC SW provides the Radio Occultation function and the Instrument Control function of the RO instrument
- Huld is also responsible of MetOp-GPP-A SW, the Ground Processor Prototype

BIOMASS CSW (Airbus DS)
GAIA CSW (Airbus DS)
METOP CSW (Airbus DS)
Galileo ASW (Airbus DS)
MTG FCI/IRS SW (Thales)
- Flexible Combined Imager SW & Infrared Sounder Application SW
- Development and maintenance
- Lifetime 20 years

ExoMars Recovery SW Image (RSI) (Airbus DS)
- Huld developed the ultimate back up software which provides basic functionality to the ground to investigate and maintain the Rover Vehicle Software
- SW Criticality Category B

Sentinel-4 UVN ASW (Airbus DS)
- Huld has developed the S4-UVN (UV/Visible/Near-Infrared) instrument control unit application SW

BepiColombo ASW (UK+F IN + Airbus)
- SIXS/MIXS ASW
- Development and maintenance
- Lifetime 10+ years
- Project span 20+ years
- OBSW OBCP
- OBSW ISVV
PLATO, the PLAnetary Transits and Oscillations of stars mission, will be launched in 2026 to find and study exoplanets.

Huld is the Spacecraft Software Prime in a consortium lead by OHB.
Ground Processing
Sentinel-4 UVN L1bPP (Airbus DS)
- Huld has developed the Level 0-1b Prototype Processor (L1bPP) that processes the raw measurements into level 1b products

Sentinel-4 UVN L1 Reference Processor (ESA)
- Huld is developing the reference processor to be used for cross-verification of the operational processor

Sentinel-5 UVNS L1bPP (Airbus DS)
- A nadir viewing push-broom spectrograph with a spectral range covering UV to short wave infrared
- SSF develops L1b prototype data processing software

MTG L2PF (Thales Services SAS)
- Huld is responsible in integrating the science data processing implemented with Algorithmic Processing Elements (APEs) provided by ESA's S4 consortium onto the L2PF platform provided by Thales Services

MTG IQT (GMV Spain)
- Tool that allows the assessment of the geometrical and radiometric performances of the instruments on-board MTG I and S satellites

Payload Data Acquisition and Processing (Thales)
- S5 L1B PGF software
- Huld develops and integrates S5 L1b processing into specific processing framework
Independent Software Verification & Validation
It is all about excellence!

Huld’s long experience in development of high-reliability software has laid a foundation to act as external consultant assisting prime companies to ensure the quality of a software product developed by SW subcontractor.
- **Galileo ISVV**
  - Huld was responsible for the ISVV of five major units
    - Navigation Signal Generator Unit
    - Platform and payload Security Unit
    - Message Generation Facility
    - Integrity Processing Facility
    - Mission Support Facility

- **BepiColombo ISVV**
- **Small-GEO ISVV**
- **EDRS-C ISVV**
- **MTG STR ISVV**
- **MTG SMU ISVV**
- **Jason (Sentinel-6) ISVV**
- **BIOMASS ISVV**