LATEST DEVELOPMENT IN THE FINNISH BUILDING INFORMATION SYSTEM
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THE BUILDING INFORMATION FOUNDATION RTS

- Established in 1942
  - Finnish Association of Architects
  - Alvar Aalto, Viljo Revell, Aarne Ervi, Aulis Blomstedt
- Private, not-for-profit foundation
- Ownership
- R & D
- Certification
- Publishing rights of main products
- New information content through 50 committees / 500 experts
  - BuildingSmartFinland / 110 members
- New information with 60 partner organisations
- Societal networking
- Public forums
- Grants, scholarships and awards
THE BUILDING INFORMATION FOUNDATION RTS

- Comprehensive coverage in urban planning, design, construction, maintenance
  Collaboration with The Electrical Contractors’ Association of Finland STUL / Info
- Finland / Helsinki, Tampere, Kuopio
- Estonia / Tallinn
- Russia / St. Petersburg,
- No public funding
- Turnover € <10 M
- Staff of 90
SERVICES AND PRODUCTS

RT Files, Planning, Building and Structural Design
RT HVAC
RT KH, Facilitly Mangement
RT Infra, Infra Structure
RT Ratu, Building Productivity Files, DigiRatu
RT SIT, Interior Design
RT Product, Building Materials and Products
RT Specification
RYL General Specifications
  > Infra
  > Ground
  > Structure
  > Infill
  > Painting
  > HVAC
  > Facilitly Management
RT Contract Service
SERVICES AND PRODUCTS

RT Cost Calculation Program
Alisa, Design Project Management Program
CAD-files
Books / print, ebooks
Magazines
Classification
Certification
  > Indoor Air M1
  > Furniture M1
  > Environmental Product Declaration EPD
Public Building Forum
INCREASING DIVERSITY IN CLASSIFICATION AND SERVICE ROADS
CLASSIFICATION

RT FILES
> Building Information Foundation, architect’s viewpoint

TALO 2000
> for construction companies, cost calculation

BIM
> Buildings
> Infra Structure

HVAC SYSTEMS
ELECTROTECHNICAL SYSTEMS
FACILITY MANAGEMENT

Challenge: a common foundation for a mutual classification system, national and international.
THE TALO CLASSIFICATION

Tables for
• Spaces
• Building Elements
• Production Sections
• Building Products; Rasi Compliant
• Guidelines for QS

• ISO 12006-2 Compliant
INFORMATION SERVICE ROADS

> **State**
  > KAPA National service road
  > GIS Geographic Information System
  > Digital permit
  > Personal health data

> **Municipalities**
  > KTP All data published by municipalities / plans, permits, applications, GIS ...

> **Construction industry**
  > TIVA Client Responsibility Service

> **Building Information Foundation**
  > DIPA Digital Service Road / to combine the existing and new services, also for external service suppliers

> **Electric Info Association**

> **Challenges:**
  - interoperability between increasing, numerous service roads
  - standards, rules of the traffic, ownership/update of database, interface
  - future functionality
DEVELOPMENT IN THE ECOSYSTEM

TEHO EFFECTIVENESS
HOT CERTIFICATION
MOKO MODULAR FILES
SPECS NEW SPECIFICATION
KIRA DIGITALISATION OF THE BRANCH
TEHO EFFECTIVENESS
PRODUCT INFORMATION SERVICE FOR CONTRACTORS
TEHO EFFECTIVENESS
PRODUCT INFORMATION SERVICE FOR CONTRACTORS

- From Product Groups to Specific Products
- Digital purchase chain
- Documentation of CE, DoP, M1, EPD...
- BIM Integration
- Specs integration
CERTIFICATION

TEHO Integration - specs integration
MOKO MODULAR FILES

- RT Files renewal
- From pdf to structured data
- Ontological search
- Personalized files
- Specs integration
Building Specification

General Quality Specification
RYL

Reference Files, e.g.
RT-files

RT-files

RATU-Files

THE BUILDING SPECIFICATION
Public branch

Municipalities, state

Regulations and operational models

"DIGITAL BUILT FINLAND"

Matti Rautiola > ICSI NEW ZEALAND > 2016-03-14
CONCLUSIONS

> Vision of the Digital Finland in the Digital World
> Vision of the Digital Building Branch
  > GIS, cities, infra, buildings, maintenance, recycle, disposal
  > Strategic choice
> Standards
> Classification
> Ecosystem
> Interoperability
Thank you!