SERAM

Sustainable Enterprise Reporting And Management

SERAM Overview

About Sirius

Sirius Technologies AG is a Swiss-based company specialized in providing CSR, Sustainability and Business Excellence software solutions.

Key figures

- Over 20 years of successful business
- International organizations as customers
- 100% privately owned
- Based in Switzerland
- International partners providing localized services

What is SERAM?

- SERAM stands for
  Sustainable Enterprise Reporting And Management
- It is a software tool for collecting data (sustainability or other) across entire organizations
- The software consolidates the collected data and helps analyze company-wide performance (CSR/sustainability etc.)
- Built-in workflow and audit tools ensure consistency and high quality of collected data

What you can't measure...

...you can't manage

Some of what SERAM can help you with

CSR / HSE reporting

Environment

Performance	Compliance
Effluent	Fines
Waste	Breaches
Energy	Complaints
Water	
Emissions	

Social

Health Safety	Labor practices
Injuries	Fair labor
Health cases	Human rights
Driver safety	Diversity
Investment	

Economic

Community	Governance
Donations	Antitrust
Investment	Compliance
Legal issues	Disclosure

Internal performance management

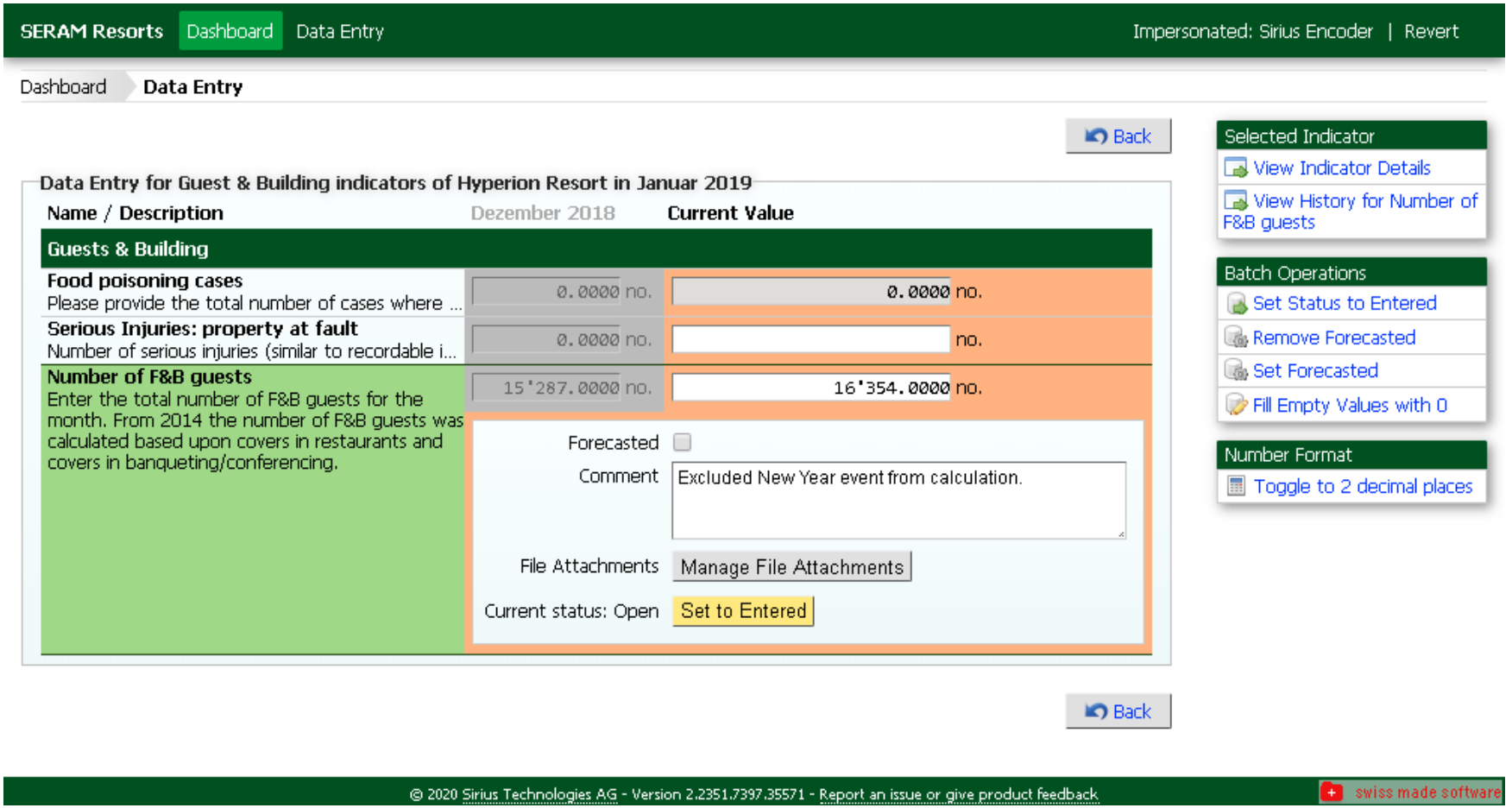
- CO2 footprint
- Water balance
- Target setting
- Compliance summary
- Injury/illness rate
- Child labor report
- Employee wellbeing
- Community investment
- SOX compliance

External reporting

- CR report
- Annual report
- Web reporting
- DJSI
- GRI
- Global Compact
- SRI analysts
- GHG protocol
- FTSE4good
- Regulatory reporting
- Industry reports

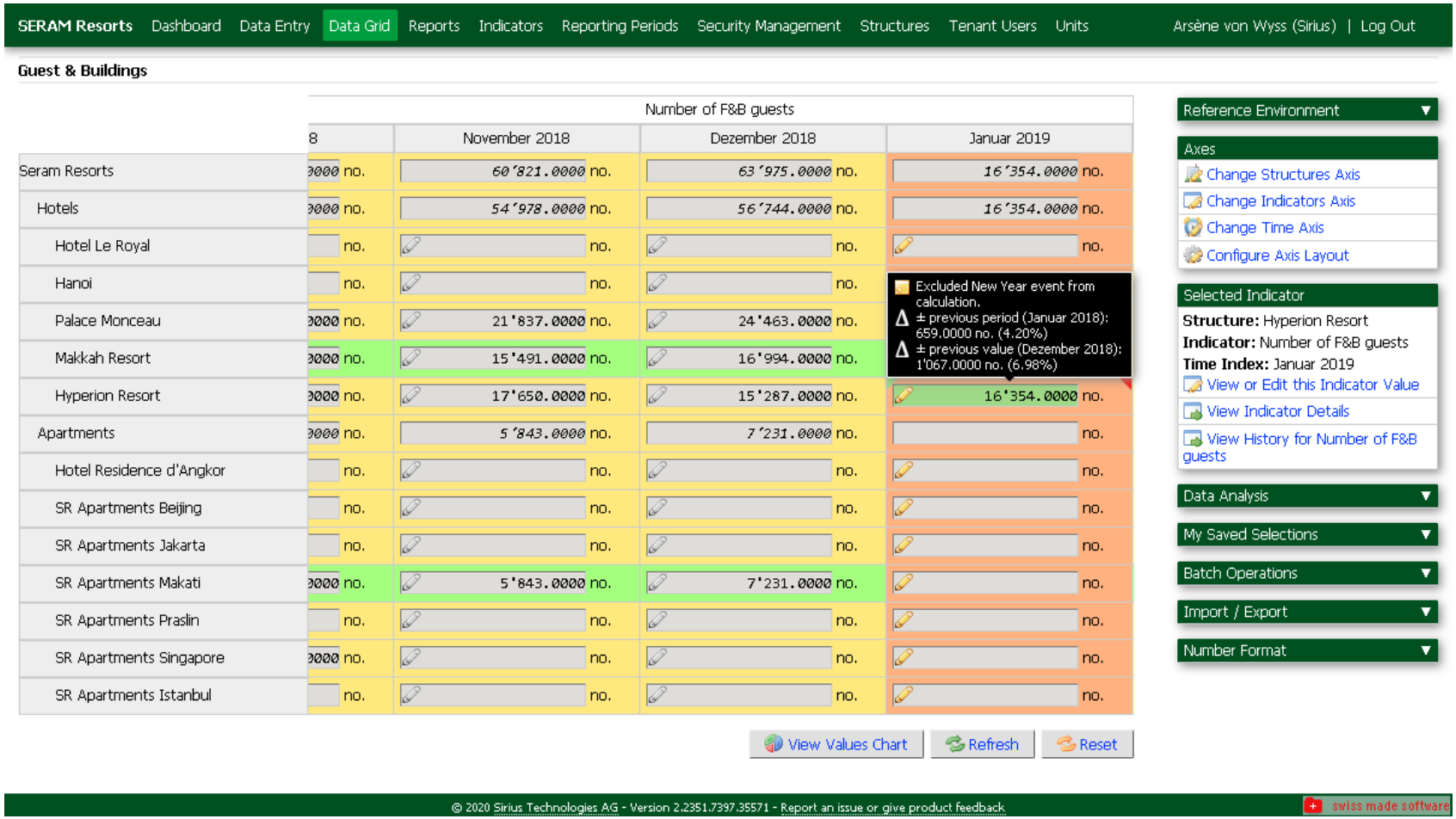
SERAM Data Collection

- Simple interface designed to be used by occasional users
- Automatic, built-in task list for one-click access to Data Entry
- Culture-specific number format (by browser language setting)



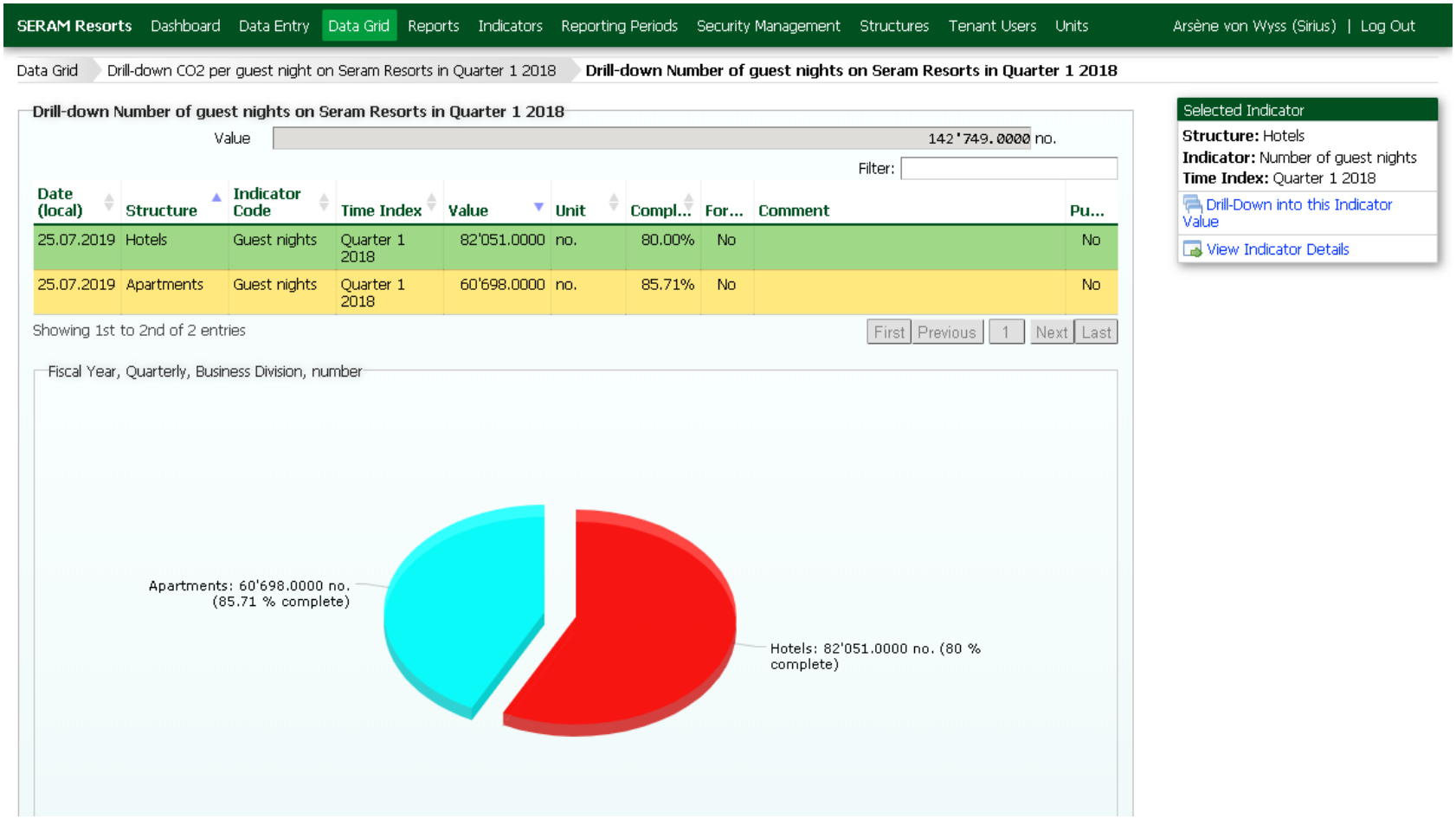
SERAM Data Grid

- Display any selection of indicators, locations, and time
- Customizable axes to generate the most useful view
- The color-coding shows the data workflow status



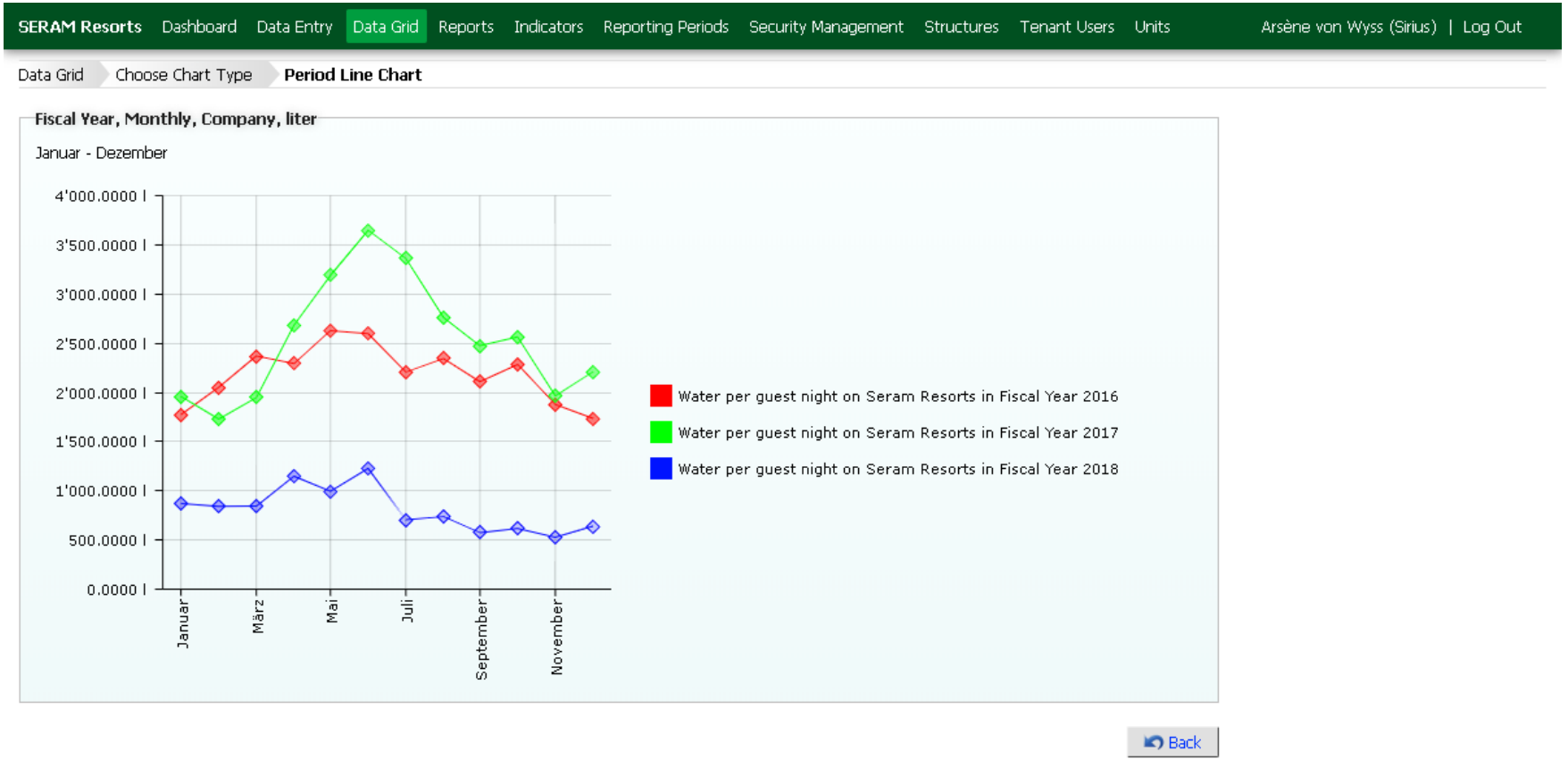
SERAM Data Grid – Drill Down

- Any consolidated or computed value can be drilled into – down to the input values
- Automatic visualization with charts



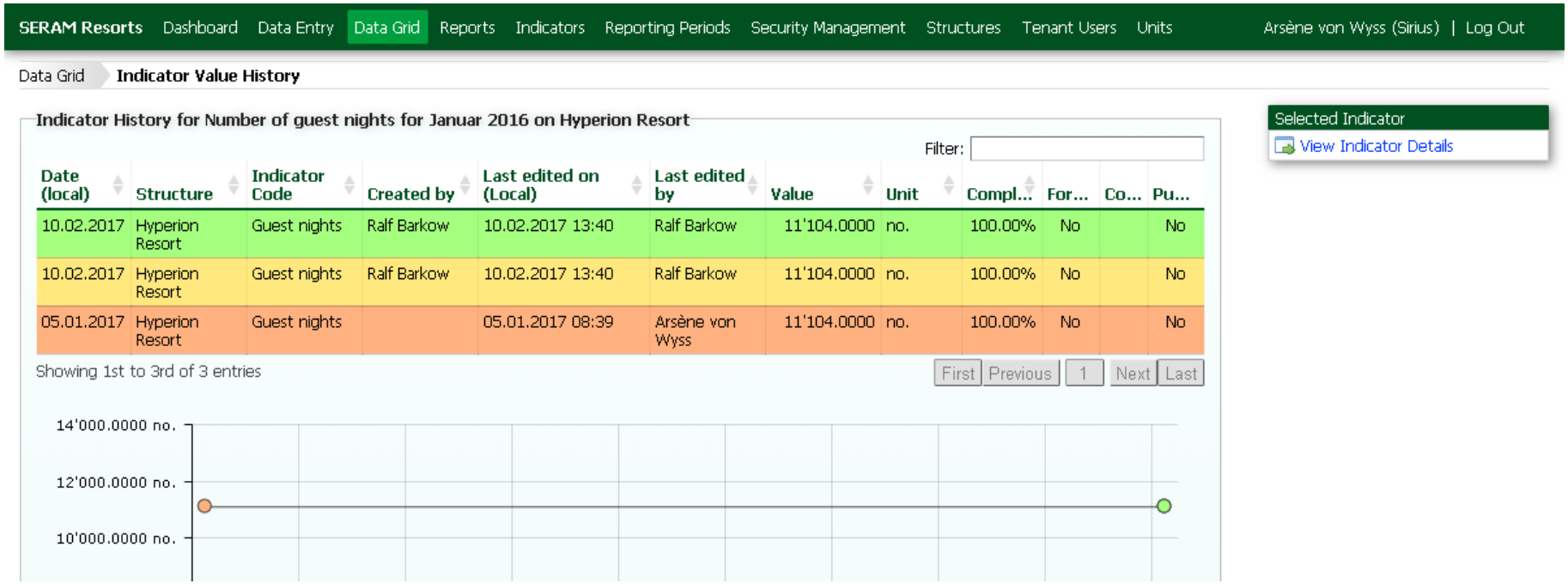
SERAM Data Grid – Charts

- Any selection of data can be rendered as charts
- Different chart types, smart layout (axes, multiple charts, etc.)



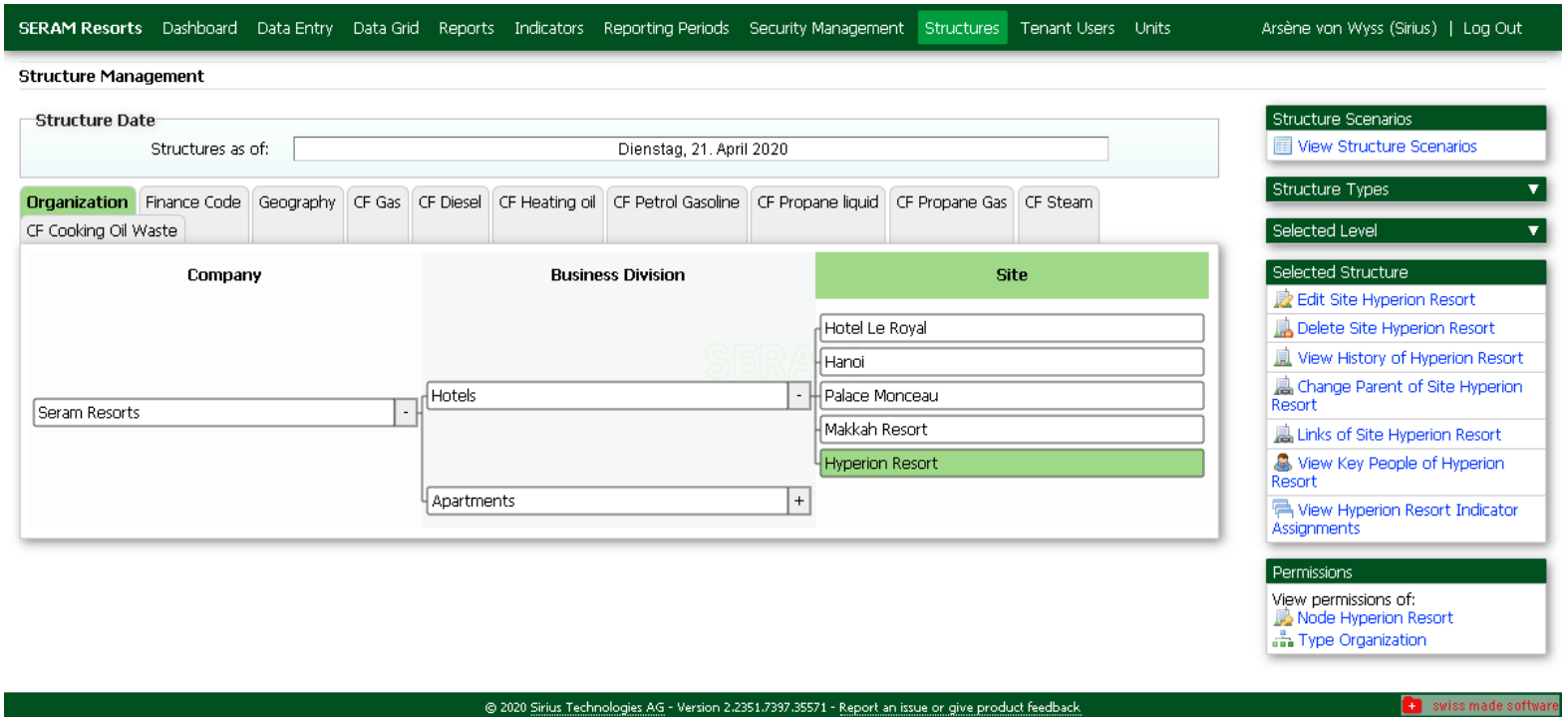
SERAM Workflows, Data Quality and Audit

- Values always have a data status (customizable): Open/Editable, Entered or Verified
- Customizable automatic data checks (plausibility, constraints)
- The value content is frozen after promotion from Editable
- Permissions-based status transition workflow (4-eyes principle)
- All changes are audited in a value history



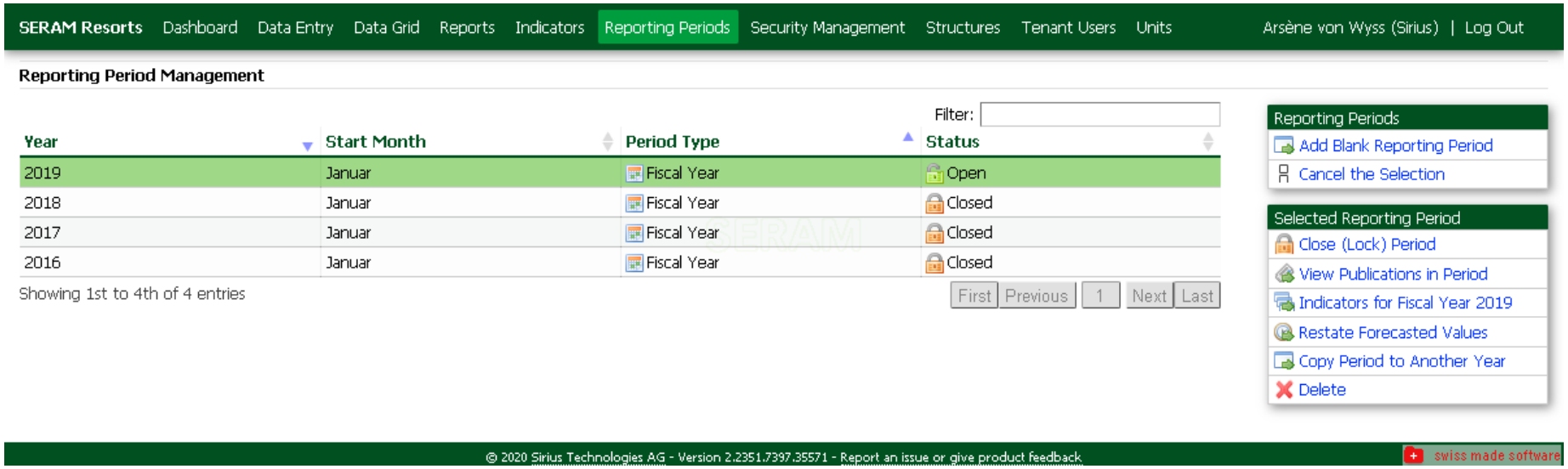
SERAM Structure Management

- Any number of structure types and levels (freely extensible)
- Structure nodes can be linked to nodes of another type, e.g. Site A is linked to Country X
- Date-driven management of structure nodes: node creation, attachment, linkage and deletion is recorded with a valuation date (past, current or future), thereby preserving full history



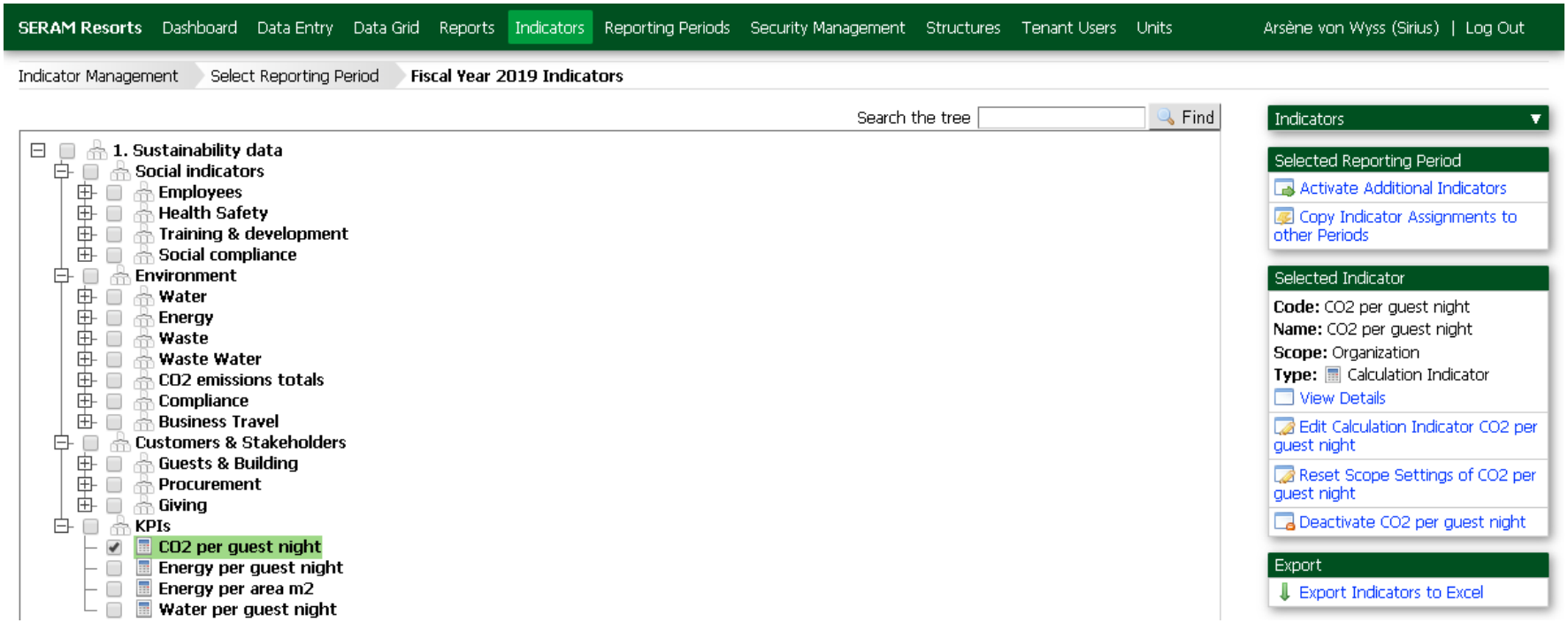
SERAM Period Control

- Many different Reporting Period types (such as Calendar Year, Fiscal Year, Equal Month Year etc.)
- Period start can be at any month boundary
- Copy of complete period configuration to the next year
- Publication support (identify values changed since publication)
- Workflow support: Batch restatement of forecasted values



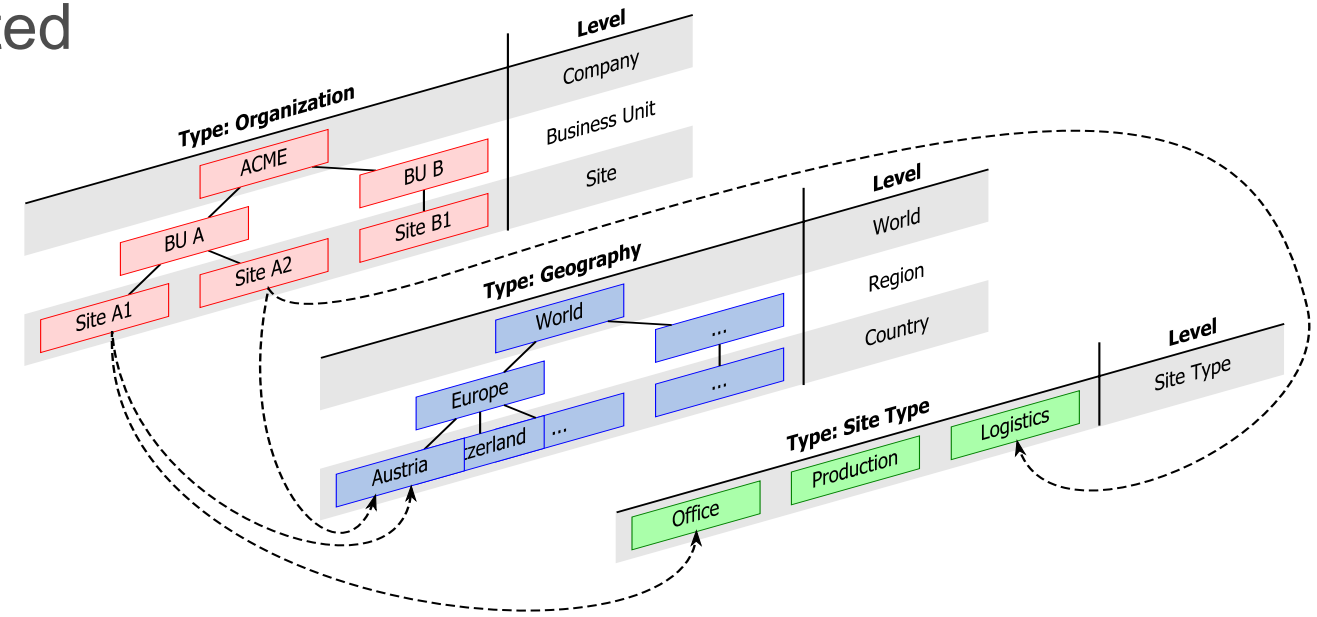
SERAM Indicator Management

- Completely customizable, unlimited indicator set
- Specialization of indicators per Reporting Period: changing the way an indicator works possible without affecting historical data
- Configuration per structure, such as applicable (yes/no), higher input frequency, local input unit (with automatic conversion)



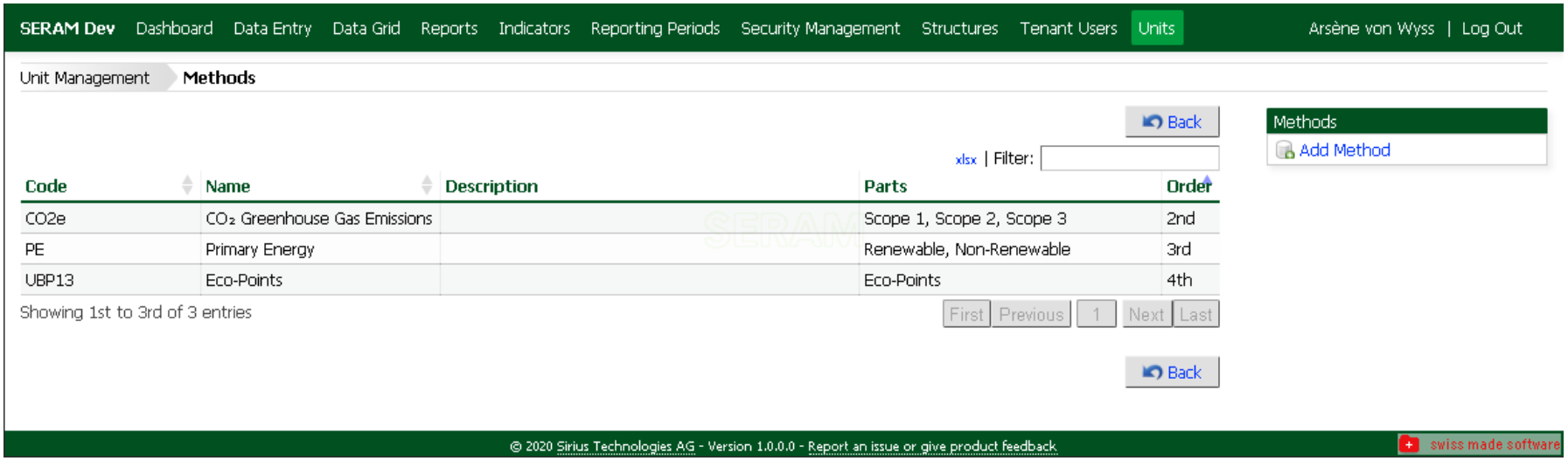
SERAM Structure Links and Data Flow

- Indicators are specific to a structure
- By using structure links, data can flow between the structures:
  When requested on a Site, a Country-specific emission factor will use the Site's link to a Country to retrieve the factor value
- Data can be consolidated across structure types:
  When a Site indicator is requested on a Site Type, the consolidated value of all Sites linked to this Site Type is computed



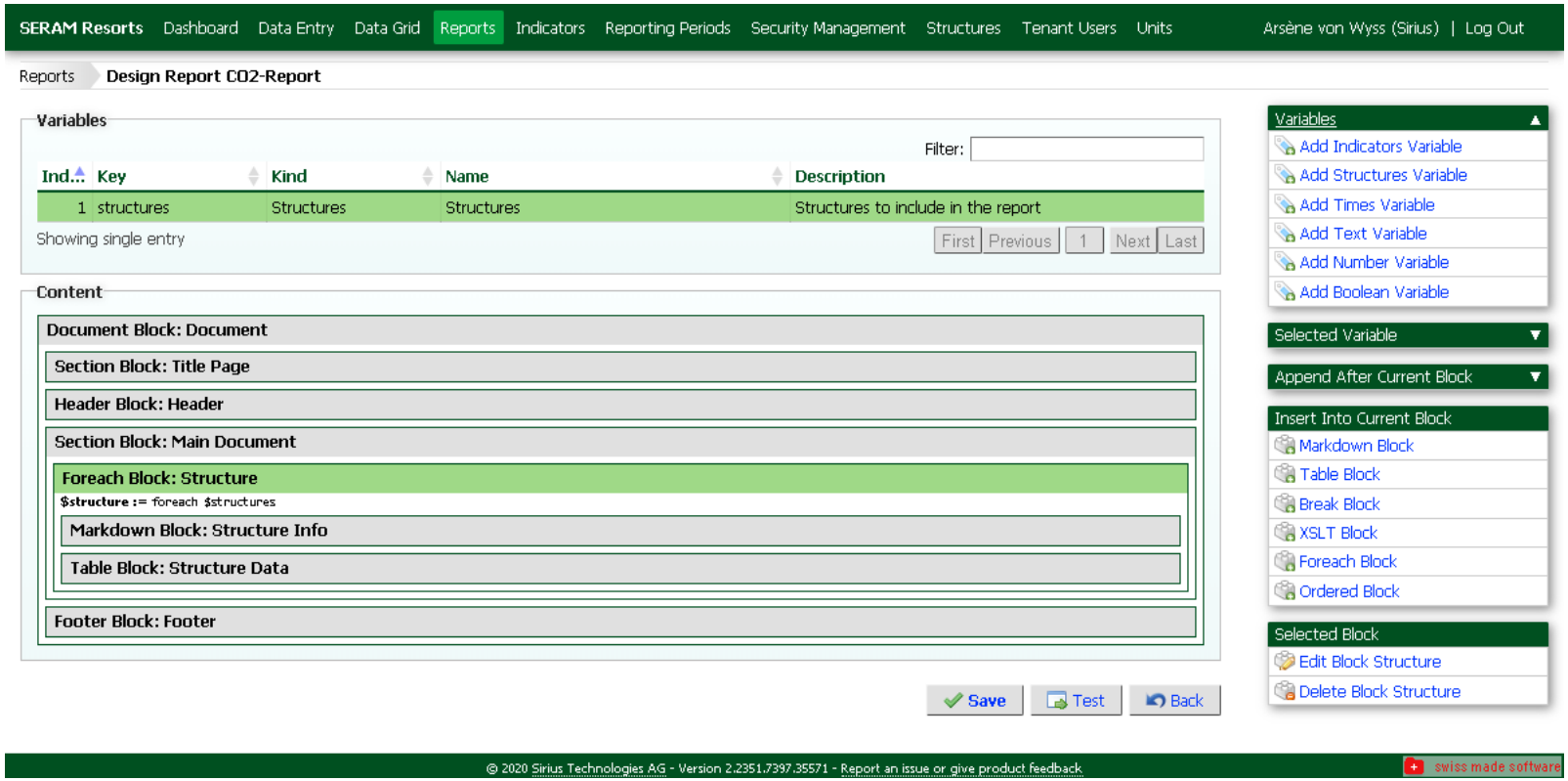
SERAM Methods

- Definition of any methods (methodologies), e.g. GHG with CO_2e, EIP/UBP or Primary Energy
- Methods can have multiple parts, e.g. Scope 1/2/3 for GHG
- Method factors allow the flexible use of different factors in calculations per method
- Calculations can use different units for different methods while using the same formula (no repetition of calculations)
- Fourth dimension besides structures, indicators and time



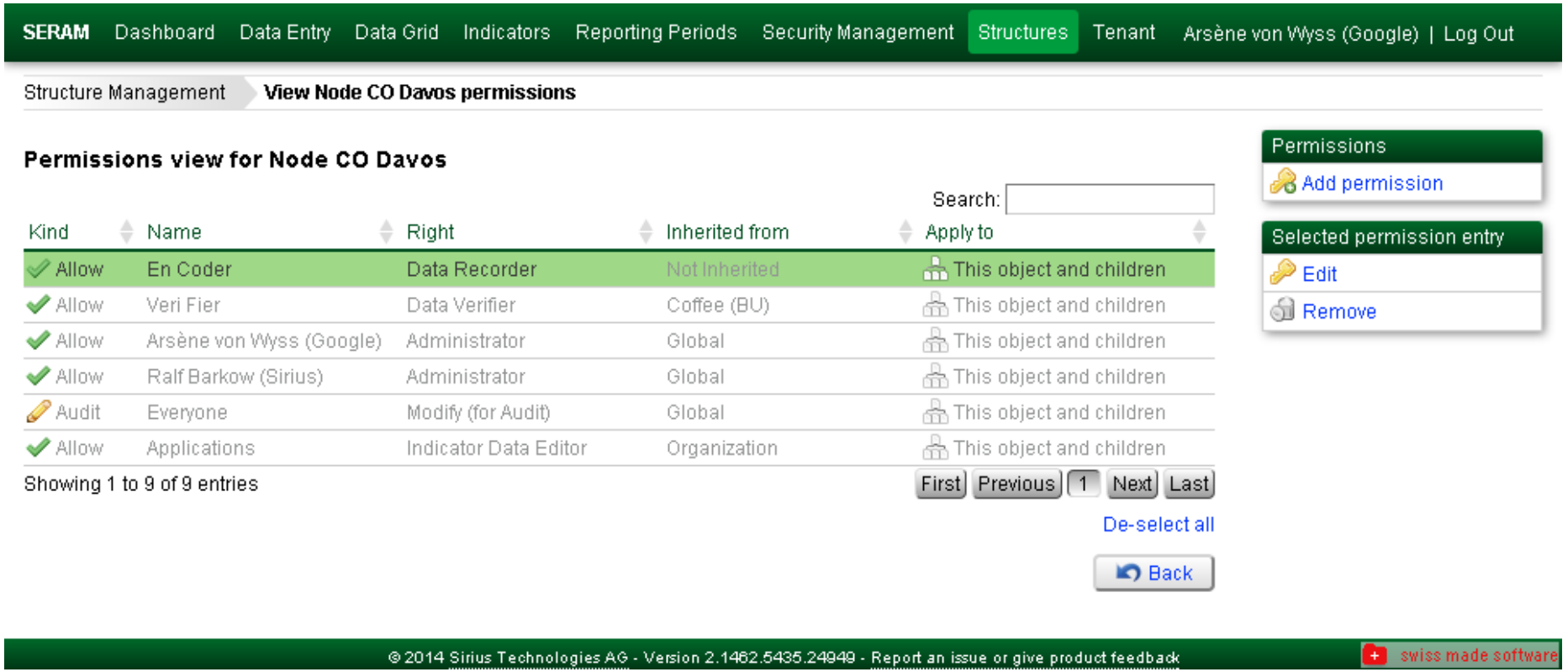
SERAM Reports

- Flexible definition of reports by administrators
- Parameterization of reports executed by users
- Output as Word document (OpenXML DOCX)
- Can output formatted text, tables, graphics, table of contents, footnotes, headers and footers, etc.



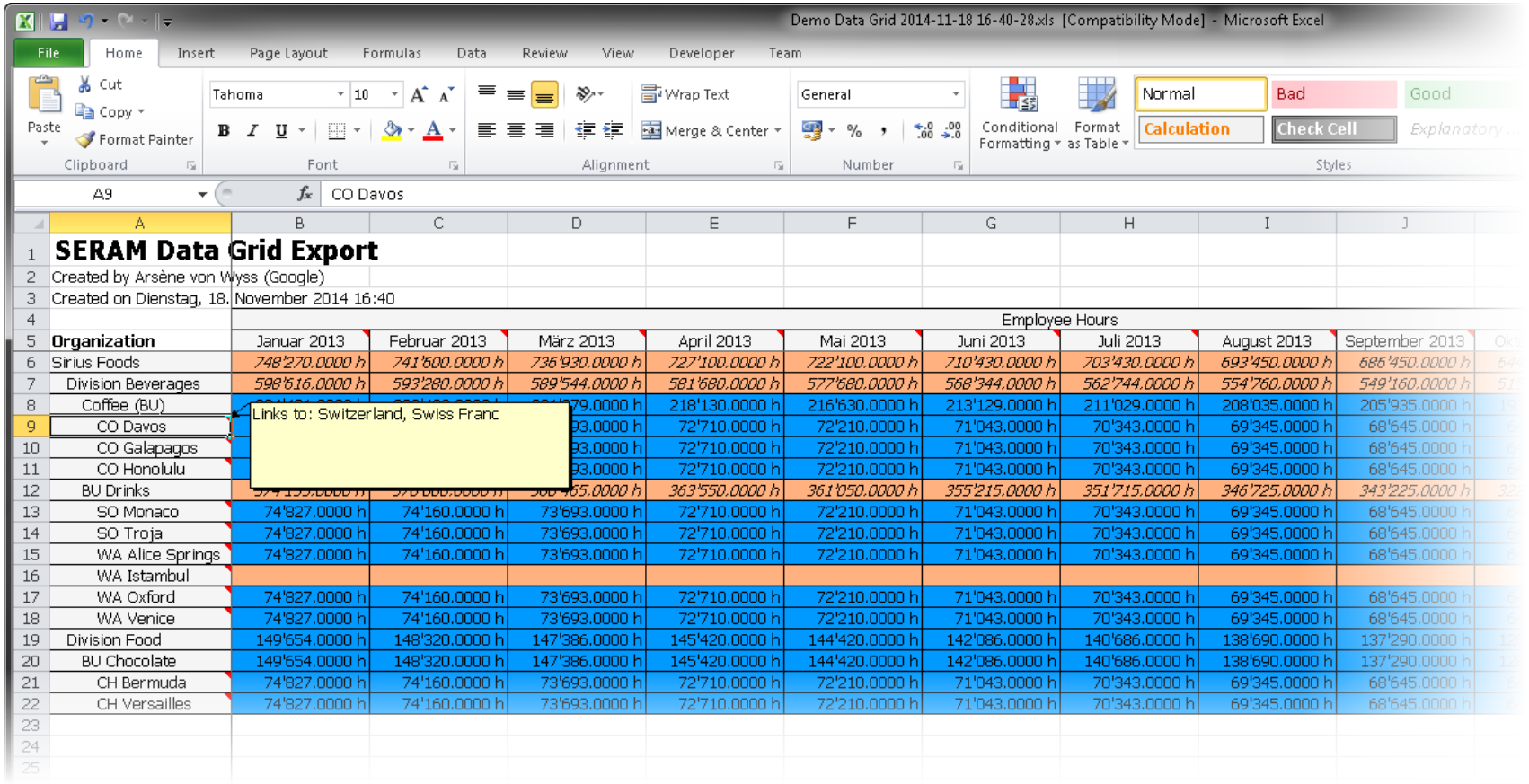
SERAM Permissions and Access Control

- Role-based (Data Recorder, Data Verifier, Administrator, etc.)
- Permissions assigned to users on structures and indicators
- Structure and Indicator visibility is controlled by permissions
- Fine-grained and customizable to any need

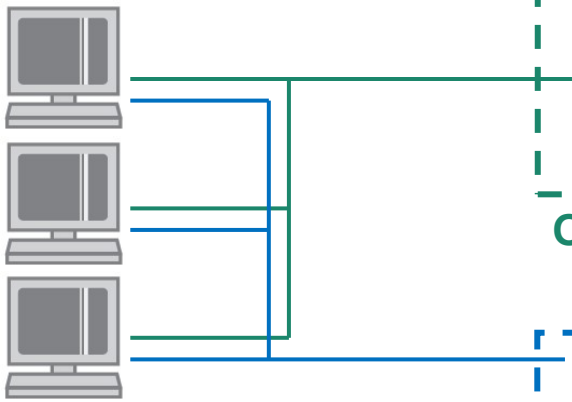


SERAM Integration features

- Customizable color schemes and logos to match CI/CD
- Import and export of values data (XML, Excel)
- Receive data from external sources (workflow exemption)
- And much more…



SERAM Technical Architecture



SERAM on any modern **Web browser**

- Internet Explorer (9+)
- Firefox
- Chrome
- Safari
- …

Middle Tier

Application Server(s)
ASP.NET application running on Microsoft IIS

Database Tier

Database Server(s)
Microsoft SQL Server

Operated and hosted in banking standard, high-availability data center in Switzerland by Sirius Technologies AG

OpenID LDAP · WordPress · Google · Blogger · flickr · yiid · VeriSign Labs · YAHOO! · claimID · myspace · Aol.

Optional: federated authentication via SAML2 (IdP) or OpenID

Why SERAM?

- ✓ No confusing spreadsheets
- ✓ Great data quality with only little user training
- ✓ Cost- and time-efficient reporting process
- ✓ Flexible data verification and analysis
- ✓ Highly adaptable to your needs
- ✓ Great customer support

Case Study: HSE reporting at Novartis

- **Pharmaceutical company**
- Seven Divisions
- ~150 Countries, ~100 000 Employees
- ~300 Reporting Sites
- ~400 SERAM Users
- Indicators – predominantly in environment, safety, health
  - 334 reporting base indicators
    Monthly: 58
    Quarterly: 137
    Yearly: 139
  - 233 calculations for reporting based on base indicator data
- DJSI – super-sector leader in Healthcare category

Case Study: Sustainability at FRHI

- **Raffles, Fairmont, swissôtel**
  Hotels, banqueting/conference centers, offices
- Over 30 countries
- Over 100 reporting locations
- SERAM covers all sustainability areas for FRHI
  - Over 150 reporting indicators
    Monthly: ~80
    Yearly: ~70
  - Calculations for reporting based on base indicator data
- Reporting process at officially started in mid 2009 with historical data to 2007
- SERAM supports the new sustainability strategy and goals

Contact Us

We look forward to help you with your sustainability reporting!

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