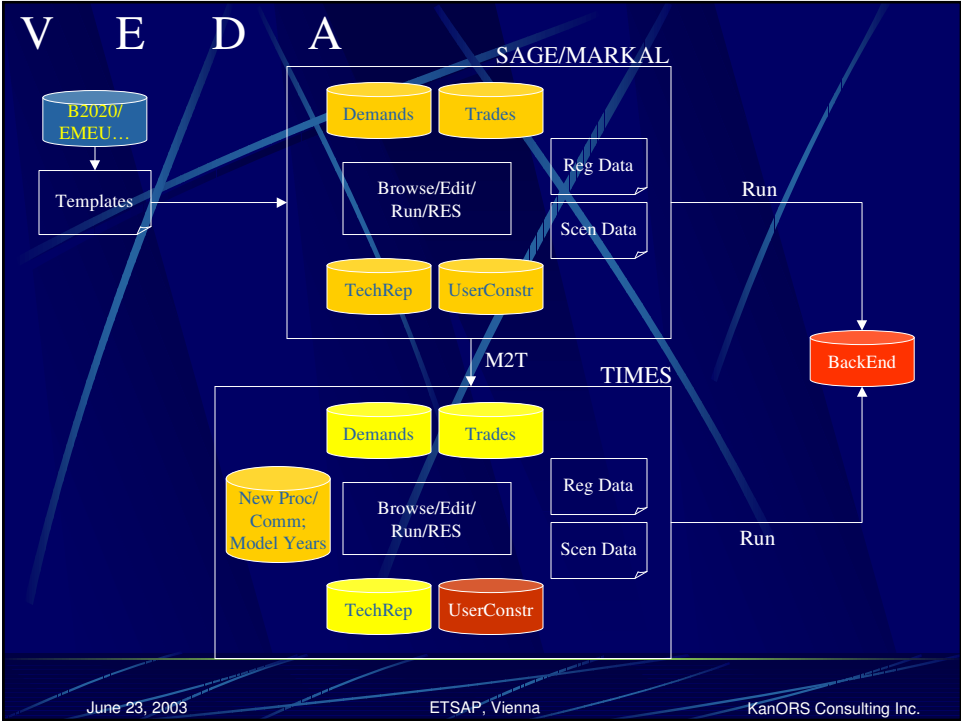




# VEDA-Front end

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## Components/Modules

- Templates
- Demands
- Technology Repository
- User Constraints/Market Share
- Trades
- Data Regionalization
- Scenario Data

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## Templates

- Base year energy balances
- Fuel split by end-use and sub-region
- Sector fuels composition
- Existing technology stock
- Emission coefficients (by fuel)
- Base year demands
  - Seasonality and Elasticity parameters
- Base year shares for User constraints

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## Demands

- Edit/View single demands
- View multiple demands
  - Absolute or relative values
- Manage driver data (scenarios)
- Manage calibration/sensitivity series

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## Technology Repository

- Select and view technologies
  - By sector/region
  - Filter options
  - Technology viewer
- Import technologies (from Excel)
  - Create alternate technology scenarios
- Delete scenarios

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## Trade

- Trade links Region matrix
- Trade parameters (R matrix)
  - like BOUND, START...
- Trade parameters (Time series)

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## User constraints

- All constraints
  - User constraints definitions
  - User constraint coefficients (relaxation factor)
  - Quality check
  - Delete, Copy
- Single constraints
  - Add
  - Edit

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## Data Regionalization

- Transform
  - Arithmetic operations can be applied on existing data
- Insert
  - New parameters can be declared
- The original purpose was to regionalize technology data

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## Scenario Data

- Technology/commodity parameters can be imported into new scenarios
  - Emission bounds
  - Trade bounds
- This facility is very quick

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## New developments in BE

- GAMS2VEDA
- Upload cube files on the www
- Complex tables
- Publishing assistant

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## New features in VEDA-BE

- Selective import
- Sets and elements on the same tab
- Copy set elements to clipboard
- Global filter
- Smart layout
- Multiple tables can be viewed at the same time
- Code+descriptions in the tables
- Excel export can be formatted
- Better graphs; export to Excel
- Enhanced filtering of data values

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## New in VEDA-BE

- Each scenario in a separate database
- Topology information gathered directly from the front-end