

MVP – an effective tool for policy evaluation Final conference Vienna, Austria

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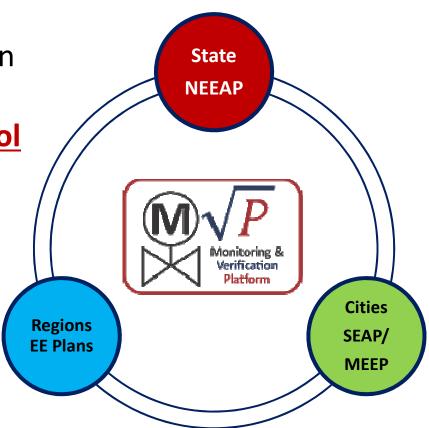


- What is MVP web tool?
- Bottom-Up (BU) methodology as an engine under the hub!
- o What is alternative for BU methodology?
- Big picture of policy planning and monitoring!
- o MVP basic logic and data structure!
- Final remarks!



What is MVP web tool?

- Platform for systematic information exchange different policy levels!
- Evidence based monitoring tool for individual measures and programs!
- Platform for <u>simultaneous</u> <u>monitoring</u> of all EE and CO₂ policy plans in one country!
- Long term vision tool for strategic planning and monitoring!



✓ **SIMPLE**, **INNOVATIVE** AND COST-OPTIMAL MONITORING SOLUTION!

BU Methodology – engine under the hub! $^{\prime}$



What is in common for all measures?

- Simple algebraic expressions!
- Existence of <u>reference</u> values!

Buildings

$$TFES = \left(U_{Ref_env} - U_{Eff_env}\right) * A * HDD * f * \frac{1}{\eta_{Ref}}$$

$$TFES = \left(P_C * h_{FL}\right) * \left(\frac{1}{ESEER_{Ref}} - \frac{1}{ESEER_{Eff}}\right) * n$$

$$TFES = n * \left(\frac{P_{Ref} * t_a - P_{eff} * t_a * fLPr}{1000}\right)$$

$$f_{LPr} = t_{Q100\%} * Q_{100\%} + t_{Q75\%} * Q_{75\%} + t_{Q50\%} * Q_{50\%} + t_{Q25\%} * Q_{25\%}$$

$$\frac{\text{Industry}}{\text{TFES} = P * t * f_l * \left(\frac{1}{\eta_{ref}} - \frac{1}{\eta_{eff}}\right) * n_m$$

Transport

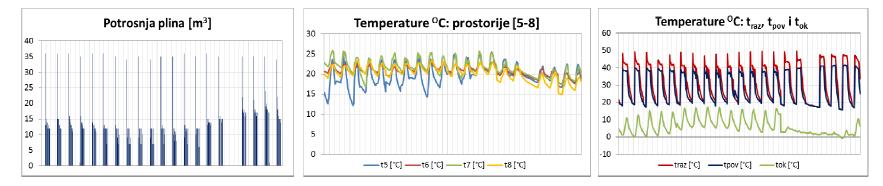
$$TFES = En_{Ref} * \left(1 - \frac{En_{Eff}}{En_{Ref}} * EV_{lub} * EV_{tyr}\right) * \frac{Mil}{100} * n_i$$

and many others ...



What is alternative for BU calculations?

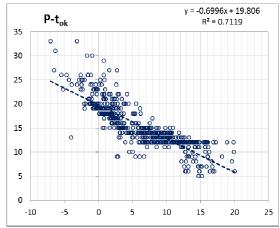


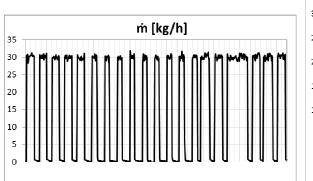


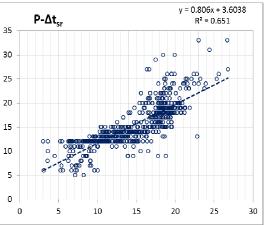
Detailed analysis of measured energy consumption in buildings/processes!

Modelling and simulations – transients, differential

equations, controls?

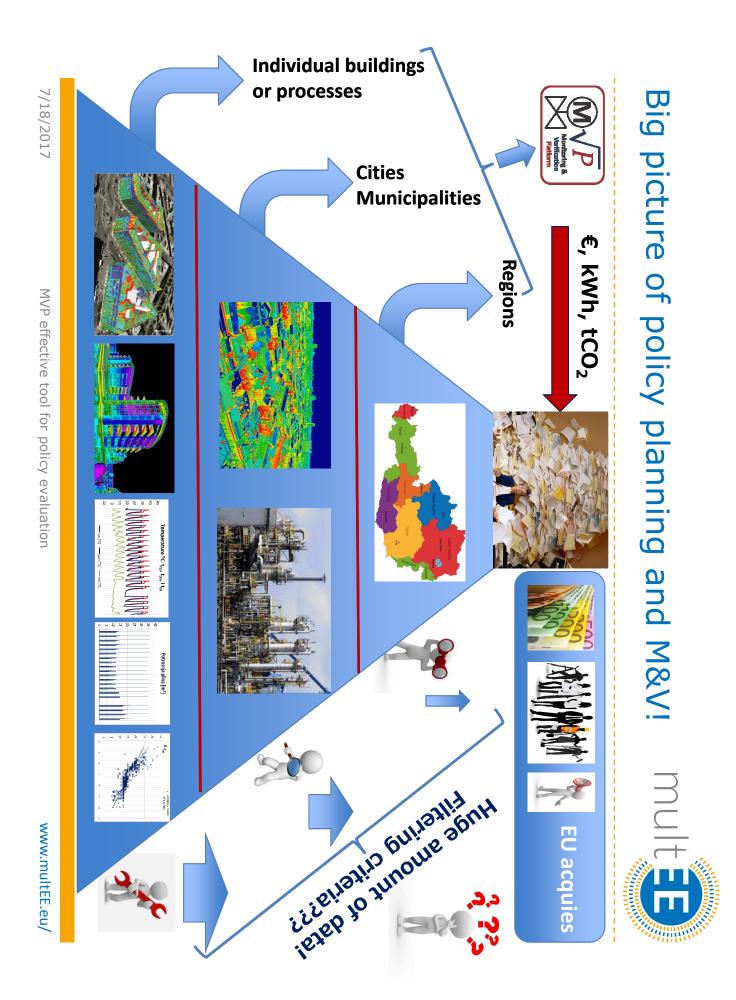






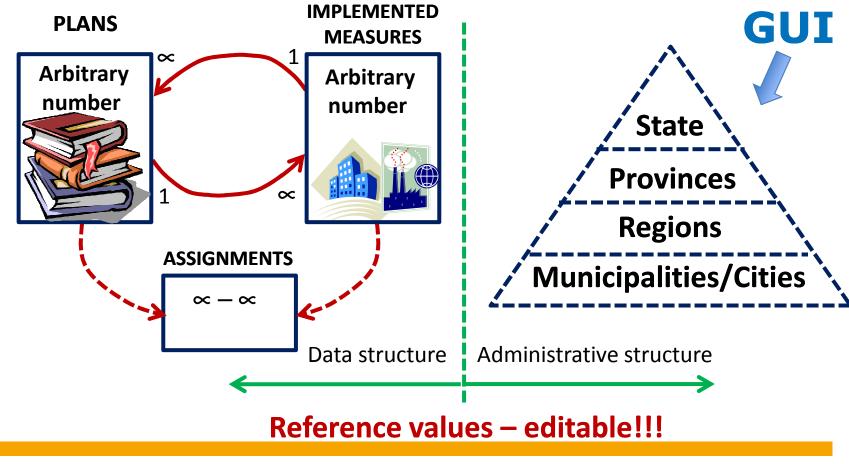
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Arbitrary number of plans, arbitrary number of implemented measures and flexible administrative structure!





- Design of administrative structure via GUI!
- Bottom-Up methodology as an engine!
- All reference values (BU methodology) are in Codetables – can be changed any time!
- Arbitrary number of policy plans either energy savings or CO₂ emission can be registered!
- Arbitrary number of implemented measures in the field can be registered!
- Simultaneous monitoring of all EE and CO₂ emission reduction policy plans at country level!
- Simple, simple, simple ...



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