

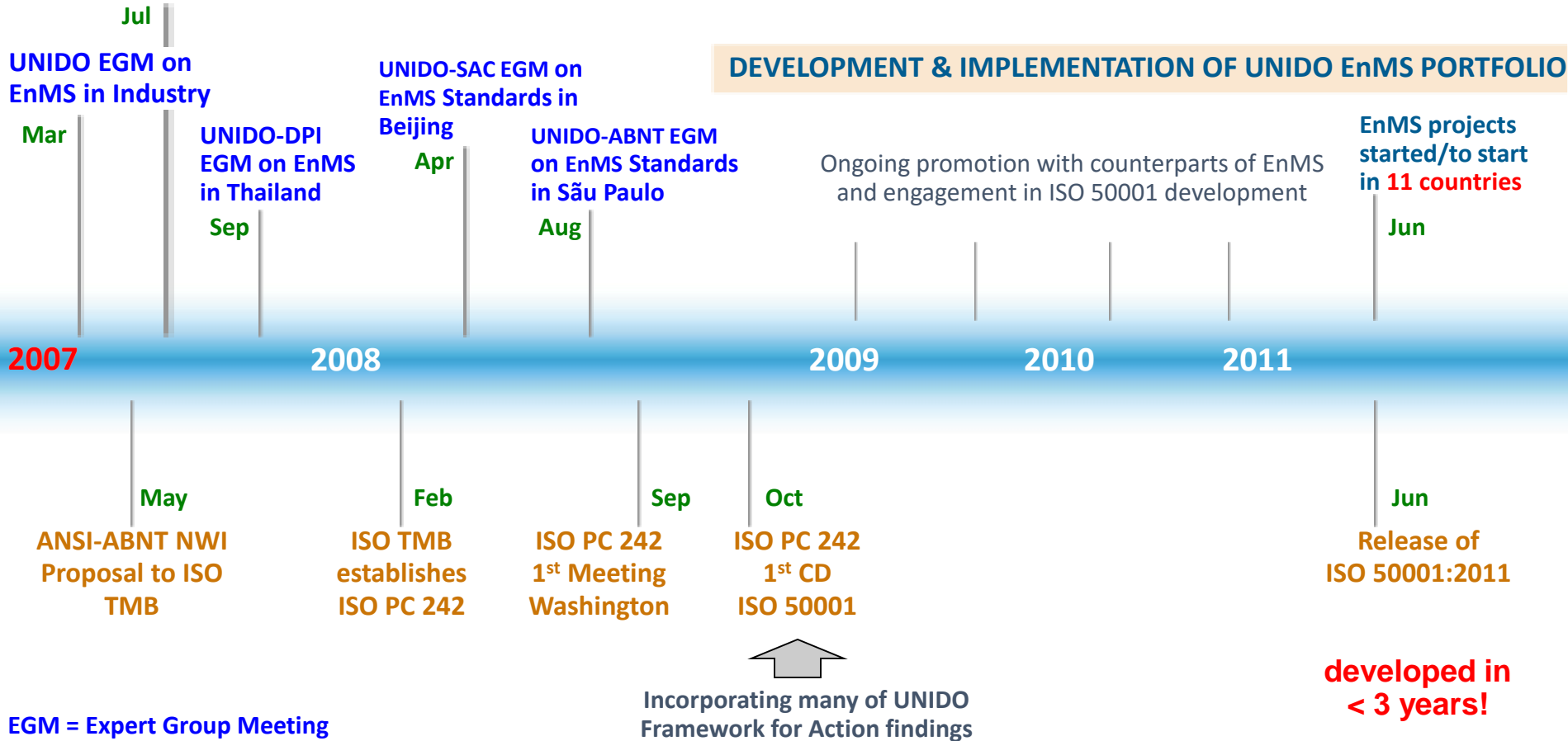
UNIDO global promotion and support of EnMS-ISO 50001

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Presented by Wendy da Cruz
UNIDO International EnMS Expert

ISO 50001 – Creating business and policy values with
Energy Management Systems
2 November 2016, Kiev, Ukraine

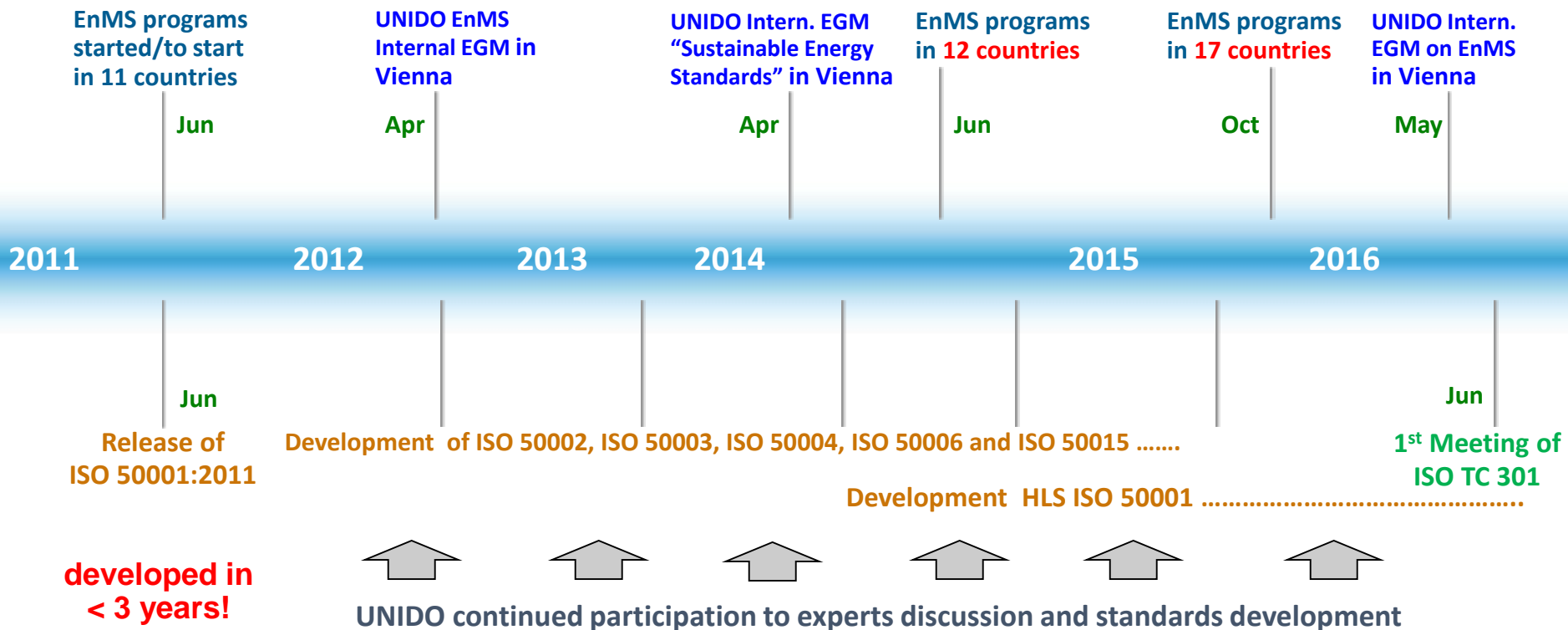
UNIDO's EnMS-ISO 50001 journey

Launch of UNIDO Project on promotion of international EnMS standards



UNIDO's EnMS-ISO 50001 journey

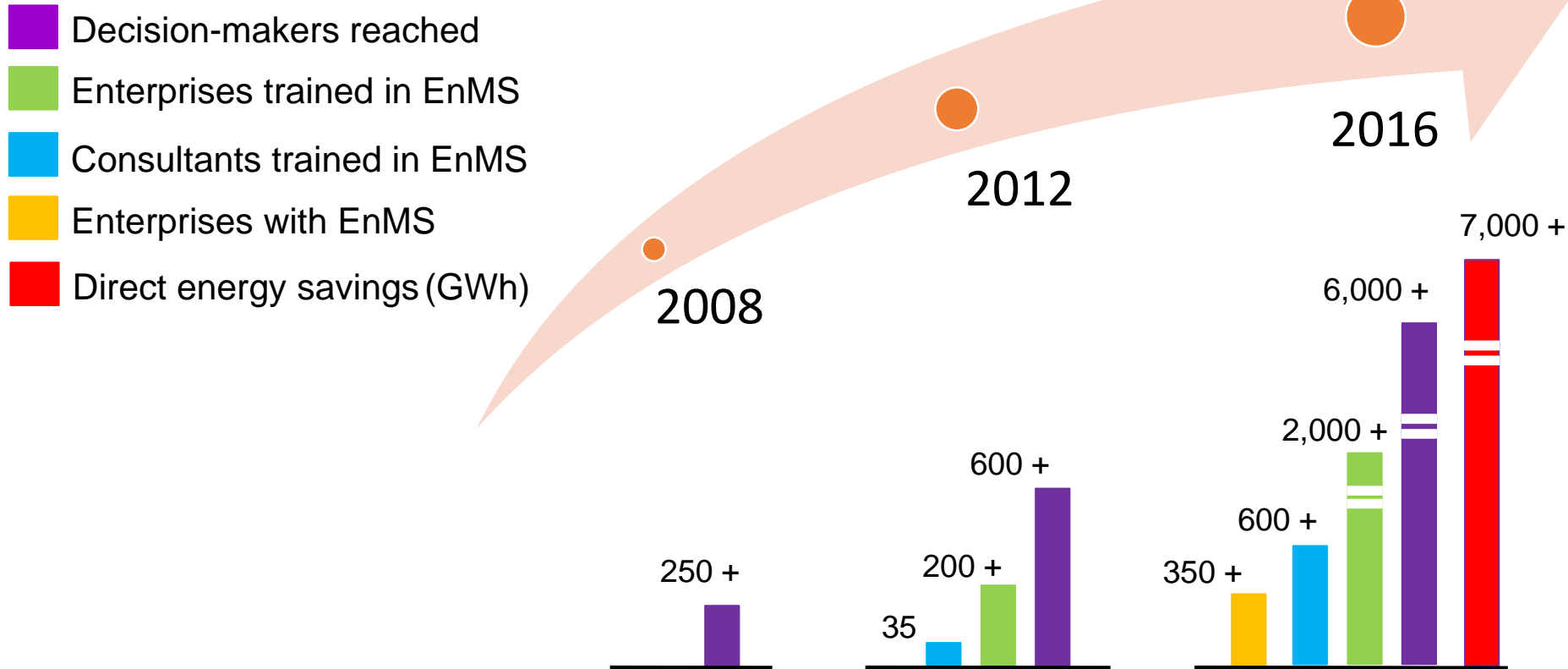
DEVELOPMENT & IMPLEMENTATION OF UNIDO EnMS PORTFOLIO



UNIDO-GEF Global EnMS-ISO 50001 Program

- Operational in 17 countries (as of May 2016)

- ✓ 11 Countries at the end of 2012



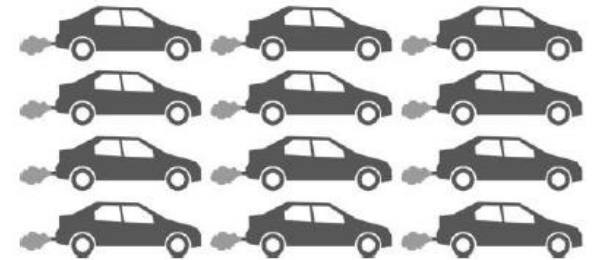
How much energy is 7,000 GWh?



Annual energy consumption of 1,150,000 EU households



Annual energy production of 2,000 MW of installed wind power

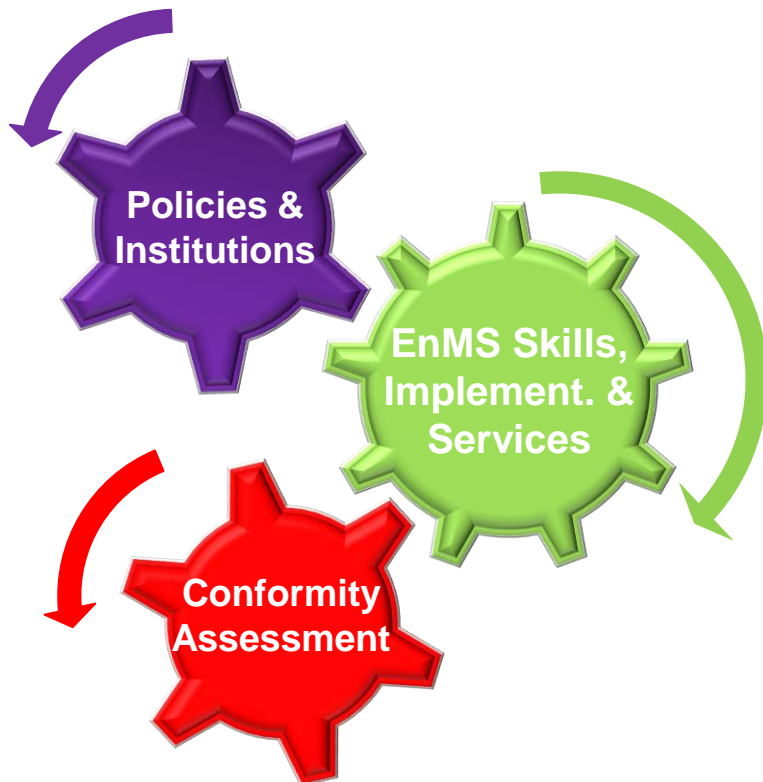


CO2 emissions of 1,750,000 middle class cars (running 12,500 km per year)

- Annual cost savings of **USD 80,000,000** without considering non-energy benefits
- Annual CO2 emission reductions of **4.3 million tCO2**

UNIDO IEE-EnMS Projects Intervention Logic

EnMS-ISO 50001 success in delivering expected benefits and impact to organizations and countries will depend on:



- ✓ Level and quality of policy support, including regulation, granted to the implementation EnMS/ISO50001

+

- ✓ Availability of competent professionals to guide, train & assist organizations in implementation

+

- ✓ Credible demonstration to organizations and the market of EnMS/ISO50001 tangible benefits

Lessons learnt, success factors and challenges

LESSONS LEARNT

- Top management necessary but not always sufficient
- Context and culture important in transferring knowledge and attitude towards change
- Education, knowledge and competencies are critical
- EnMS/ISO 50001 means CHANGE.. more of organizations' processes and people's behavior than technicalities
- EnMS/ISO 50001 brings about "paradigms shift" → save energy without spending money; energy management is not just one person's business; change of organization culture for EE;
- EnMS/ISO 50001 achieves sustainability of EE

SUCCESS FACTORS

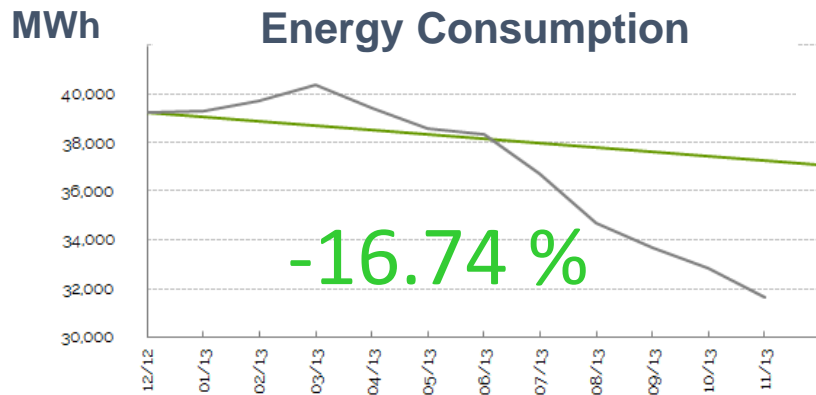
- Real top management commitment
- Openness to change
- Ability to show improvements at early stage
- Rewarding commitment and performance
- Strong consultants and supporting program

CHALLENGES

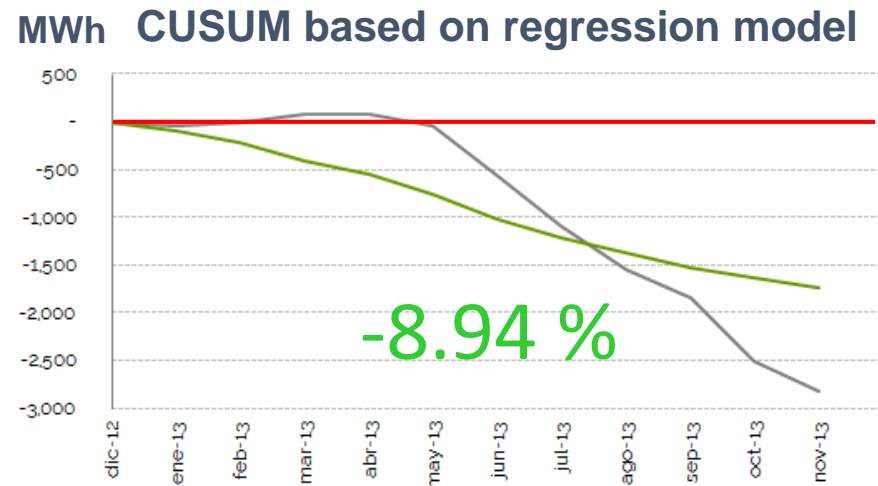
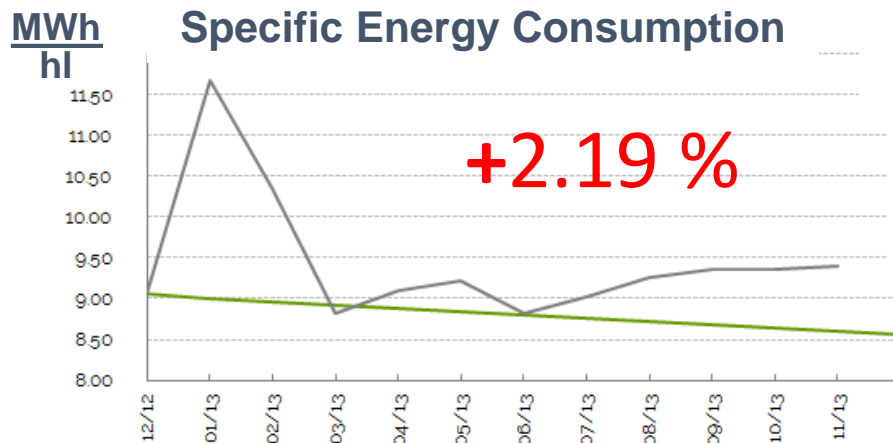
- Support change management and behavior change
- Manage and support transition from OLD to NEW energy performance measurement and indicators
- Small companies

Measuring energy performance

Which is right?



— Performance Target
— Actual Performance



Brewing industry

Looking ahead

WHERE TO DO MORE

- Policies and institutions
- Conformity assessment
- Energy performance measurement
- Change management
- Tools for implementation
- Knowledge management

NEW INITIATIVES

- EnMS Sectoral Guides
 - ✓ Nexus
- EnMS for Cities/Sustainable Cities
- EnMS for small companies
- UNIDO EnMS Expert Community

EnMS-ISO 50001 Collaborative Partnerships

PARTNERS

- ISO TC 242/301 & ISO CS
- Energy Management Working Group
- Austrian Energy Agency, Netherlands Enterprise Agency, USDOE
- SE4ALL IEE Accelerator
- STEAM-UP; EU-MERCI
- Global Environment Facility
- Green Climate Fund
- World Bank

AREAS

- Advocacy in industry
- Policy-makers engagement
- Conformity assessment
- EnMS implementation
- Expertise and research
- Tools and training
- Fund mobilization
- Knowledge and best-practices dissemination

Thank you for your attention

For more information:

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