

UPDATE TASK 24

Closing the Loop -

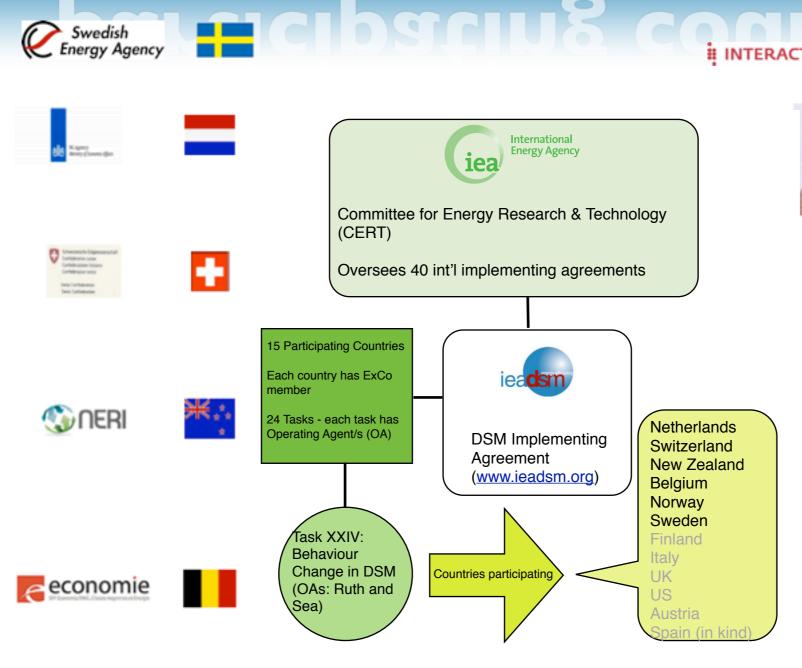
Behaviour Change in DSM: From Theory to Practice



Dr Sea Rotmann and Dr Ruth Mourik ExCo meeting, Utrecht Netherlands, April 25, 2013



IEA DSM Task 24 participating countries



























IEA DSM Task 24 participating countries











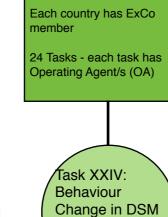












(OAs: Ruth and

Sea)

15 Participating Countries





















economie





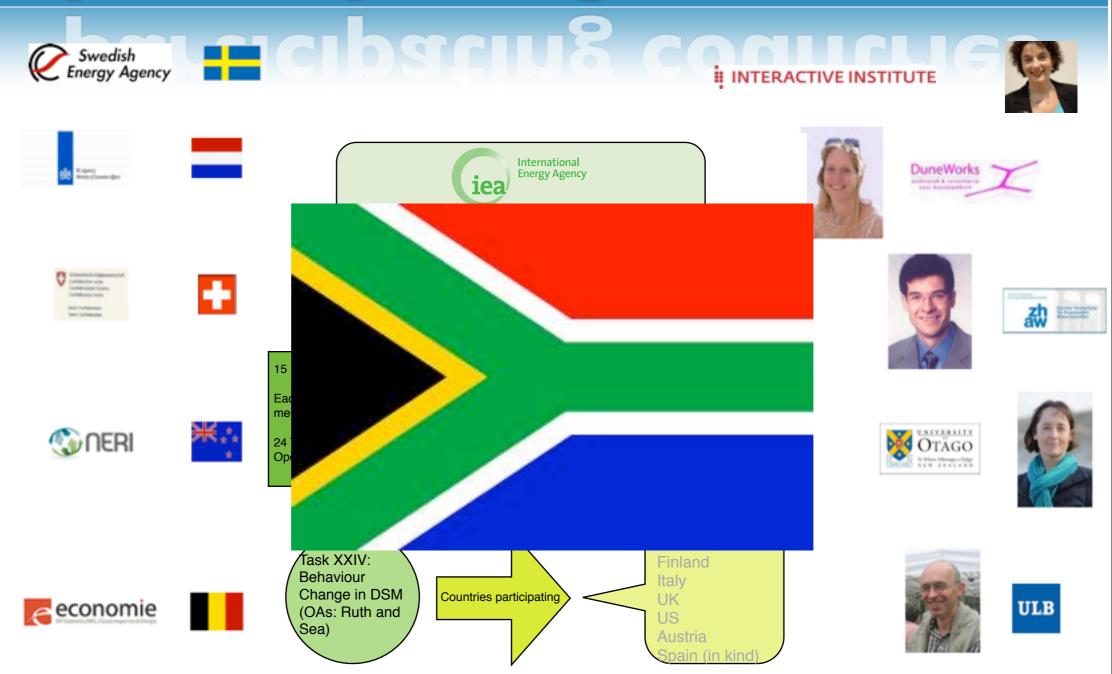




IEA DSM Task 24 participating countries











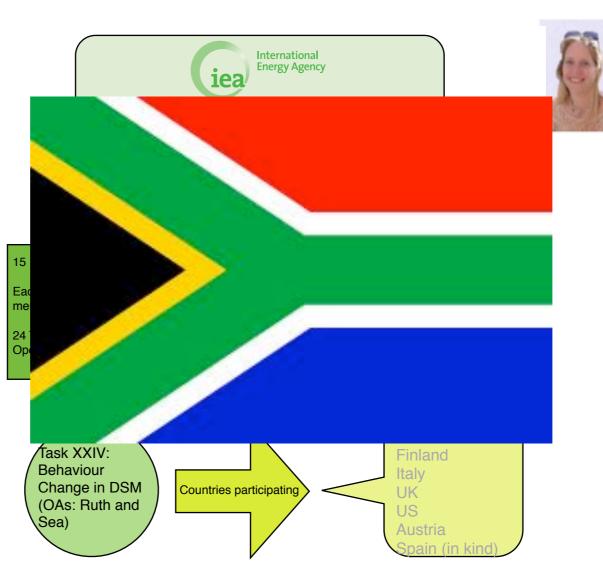




IEA DSM Task 24 participating countries



























deliverables

- D0:Advisory committee of stakeholders from ExCo, IEA, research, commercial, community, policy and end user sectors providing strategic guidance.
- D1: Social platform and meeting place for DSM and behaviour change experts and implementers. Will include wide range of social media tools to foster greatest ability to interact, share and discuss. 'Matchmaking' service to enable trans-national, inter-disciplinary teams of experts and end users to collaborate and bid for funding.
- D2: Database and/or Wiki of all collected case studies, best practice, models, frameworks, definitions, contexts, evaluation metrics, references etc.
- D3: Surveys and post-evaluation of detailed case studies in priority areas.
- D4:Tool to evaluate 'successful outcomes' for variety of stakeholders (political, policy, community, industry, end user).
- D5:To do's and not to do's, priority research areas and ideas for pilots and projects for participating countries and stakeholders.



objectives in last 6 months

MONTHS

1. Subtask I - Helicopter Overview:

- · Overview of definitions used in Subtask I including how they were derived
- Templates to collect models and case studies completed and filled in by national experts
- · Inventory of models, countries and domains that were collected
- · Framework to categorise templates adapted from Chatterton and Wilson (2011)
- · Wiki to collect and analyse templates
- · Interviews with energy professionals telling their 'energy stories'
- Energy stories from participating countries
- · 2 national Workshops to continue discussion on models of understanding behaviour

2. Subtask V - Expert Platform:

- · Continued growth of experts to the platform
- · Utilisation of platform, including uploading all content from workshops and Subtasks
- · Connect Wiki to platform
- · Foster engagement and 'matchmaking' among experts
- · Stakeholder engagement plan
- Publicising of Task 24

3. Subtask 0 - Administration:

- Advisory Group invitations sent out
- ExCo meetings and report-back
- National expert workshops and webinars



the last 6 months: publications

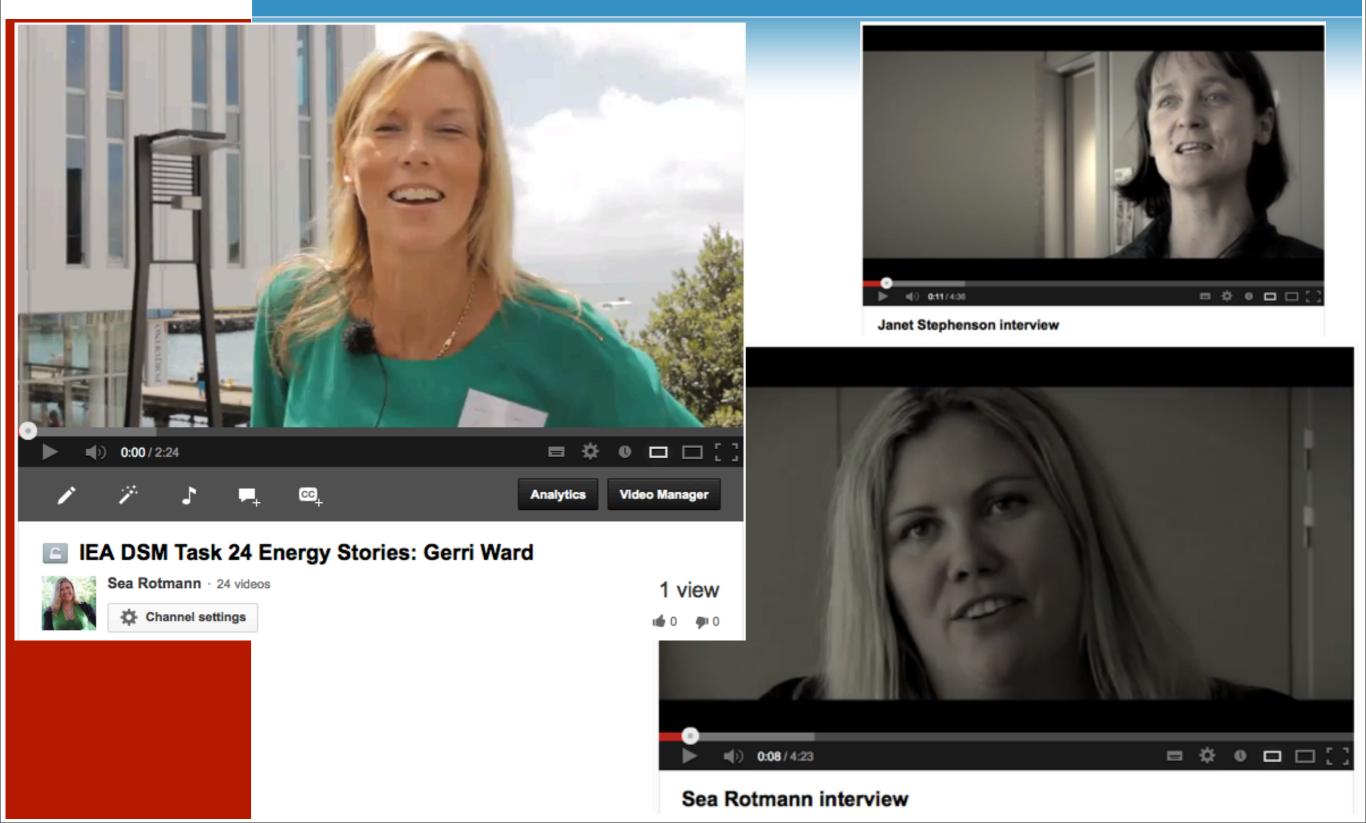


Task 24 Publications, presentations and reports

- IEA DSM Spotlight 48 Issue on Dutch workshop
- IEA DSM Website Task 24 (updated)
- EEIP Magazine (column on corporate behaviour)
- Sea Rotmann interview with energynet.de (podcast)
- Sea Rotmann eceee column (on difficulty of doing good energy efficiency policy #2)
- Sea Rotmann Global Energy Professionals blog (Why is energy efficiency so unsexy?)
- New merged Template for Models of Understanding Behaviour and Theories of Change via use of actual case studies (template)
- Inventory of models/countries/case studies (wiki table)
- Overview of definitions and how they were derived for Task 24 (powerpoint)
- New IEA DSM Task 24 Pecha Kucha presentation (powerpoint/film)
- Pecha Kucha presentation NERI workshop 'Why is energy efficiency so damn unsexy?' (powerpoint)
- NERI Task 24 presentation (powerpoint)
- Task 24 presentation at IEA Secretariat Roundtable in Paris (powerpoint)
- 21 new Interviews of experts' own energy stories (film)
- New Zealand's Energy story (powerpoint/film)
- UKERC Meeting Place report of Oxford workshop (report)
- NZ stakeholder analysis (report)
- NZ sector energy stories industry, research, government (powerpoint/film)
- 3 NZ and 1 Dutch case study (powerpoint)
- Models of Understanding definitions (powerpoint/film)
- Implementation Bloopers in Policy (powerpoint/film)
- Feedback from NZ Workshops on behaviour change problems in from 3 stakeholders' perspective (film/notes)
- Feedback from Dutch Workshop on reasons DSM programmes failed (powerpoint)
- eceee Summer Study peer-reviewed paper (scientific publication)
- What is Evolutionary Psychology (presentation in Dutch)

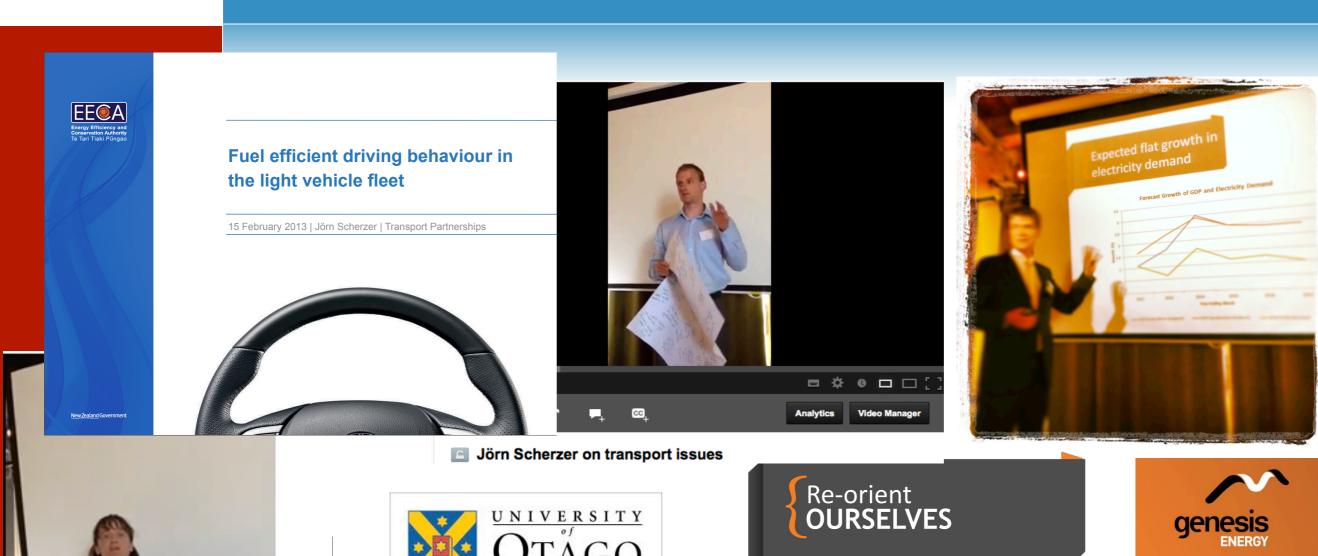


energy stories: personal





energy stories: sectoral



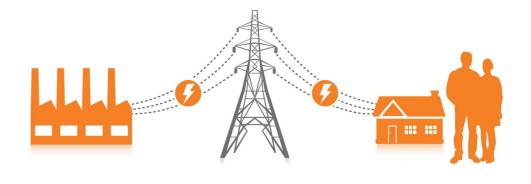


Energy Behaviour Challenge 1

Changing household energy cultures A research perspective









energy stories: national



IEA DSM – Task XXIV



Belgian Story







Brussels, September 7, 2012



The New Zealand energy story



Sea Rotmann and Janet
Stephenson





social media in Task 24



@IEADSM

@DrSeaRotmann



IEA DSM facebook Group



IEA DSM LinkedIn Group



Expert platform: www.ieadsmtask24.ning.com



Task 24 Wiki:

www.ieadsmtask24wiki.info



IEA DSM website: www.ieadsm.org



Behaviour Change & Energy News



www.youtube.com/IEADSM



Pearltree: drsearotmann



Instagram: drsea77



Storify: DrSeaRotmann















the last 6 months: workshops & conferences

	Date	Place	Total # Experts	# of countries	Type of meeting	Government	Business and NGO	Academic
	12/11/ 12	online	6	5	Expert Webinar		2	4
	20/12/ 12	Utrecht, NL	22	1	Stakeholder Meeting NL	1	14	7
7	7/2/13	online	6	5	Expert Webinar		2	4
	15/2/13	Wellington, NZ	50	4	Expert Workshop	15	15	20







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Date	Place	Total # Experts	# of countries	Type of meeting
17/12/12	Wellington, NZ	10	1	Stakeholder update NZ Government
13-14/2/13	Wellington, NZ	100+		National Energy Research Institute conference 'Energy at the Crossroads'
13/3/13	Paris, FR	30+	28	Presentation to IEA Secretariat Behaviour Workshop 'Choices, Decisions and Lifestyles Roundtable'



deliverables - update D0

D0:Advisory committee of stakeholders from ExCo, IEA, research, commercial, community, policy and end user sectors providing strategic guidance.

Invitations sent to following people:

IEA DSM: Rob KOOL, NL

IEA Secretariat: Sara PASQUIER, FR

Research: Skip LAITNER, US

Industry: Hans de KEULENAER, European Copper Institute, BE

Consultancy: Rod JANSSEN, Energy in Demand, FR

Government: Adam COOPER, DECC, UK

Local Government: Anthony van de VEN, Eindhoven Municipality, NL

Technology Developer: Tom LEYS, Gridspy, NZ

Social Media: Dusan JAKOVJLEVIC, EEIP, BE

NGO: Nils BORG, ECEEE, SE

Utility: Scott NEUMAN, Opower, US

Ist virtual meeting proposed September: to feedback on results from Subtask I











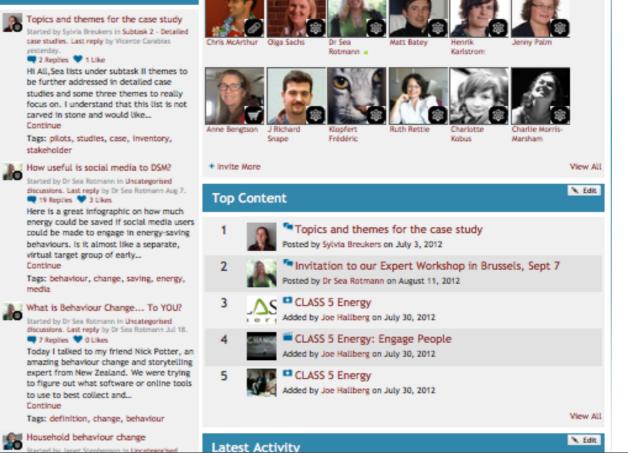


DI: subtask V - expert platform





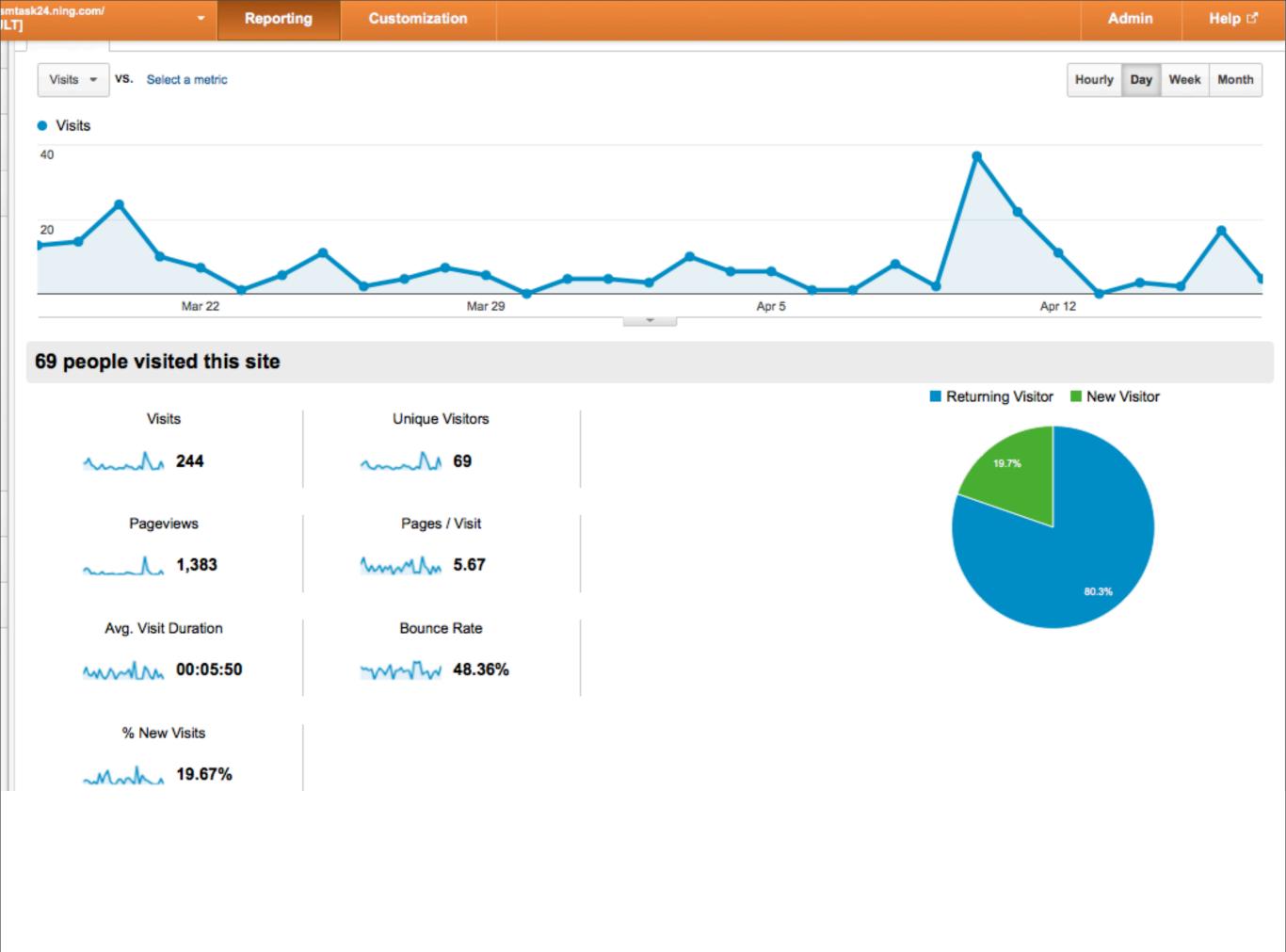
- -70 videos
- -59 photos
- -3 blogs
- -12 events
- -18 discussion fora
- -2 member groups

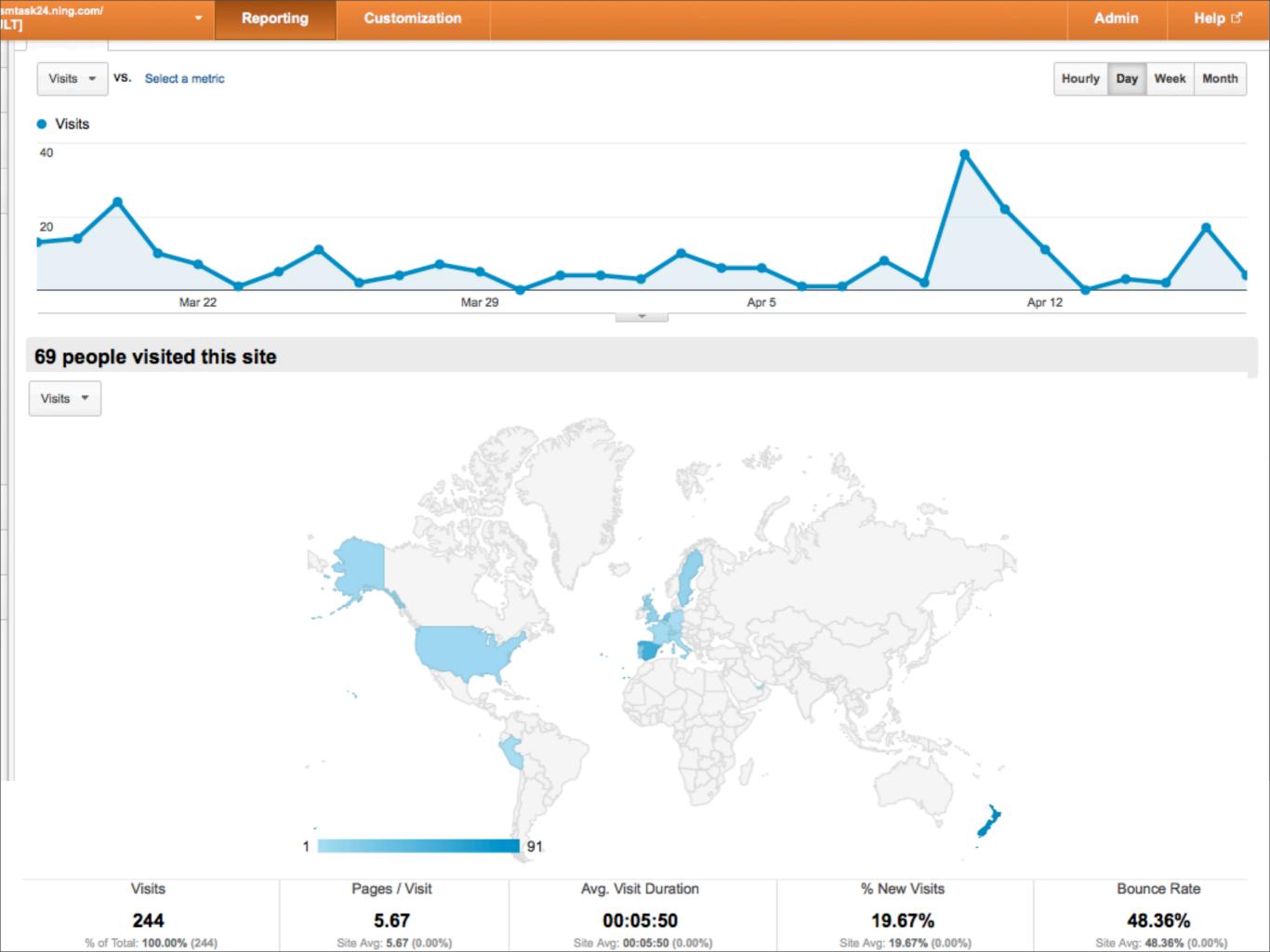


World Map of

Participating countries, contributing experts

Expert platform currently has over 150 experts from 20 countries and 7 main sectors.

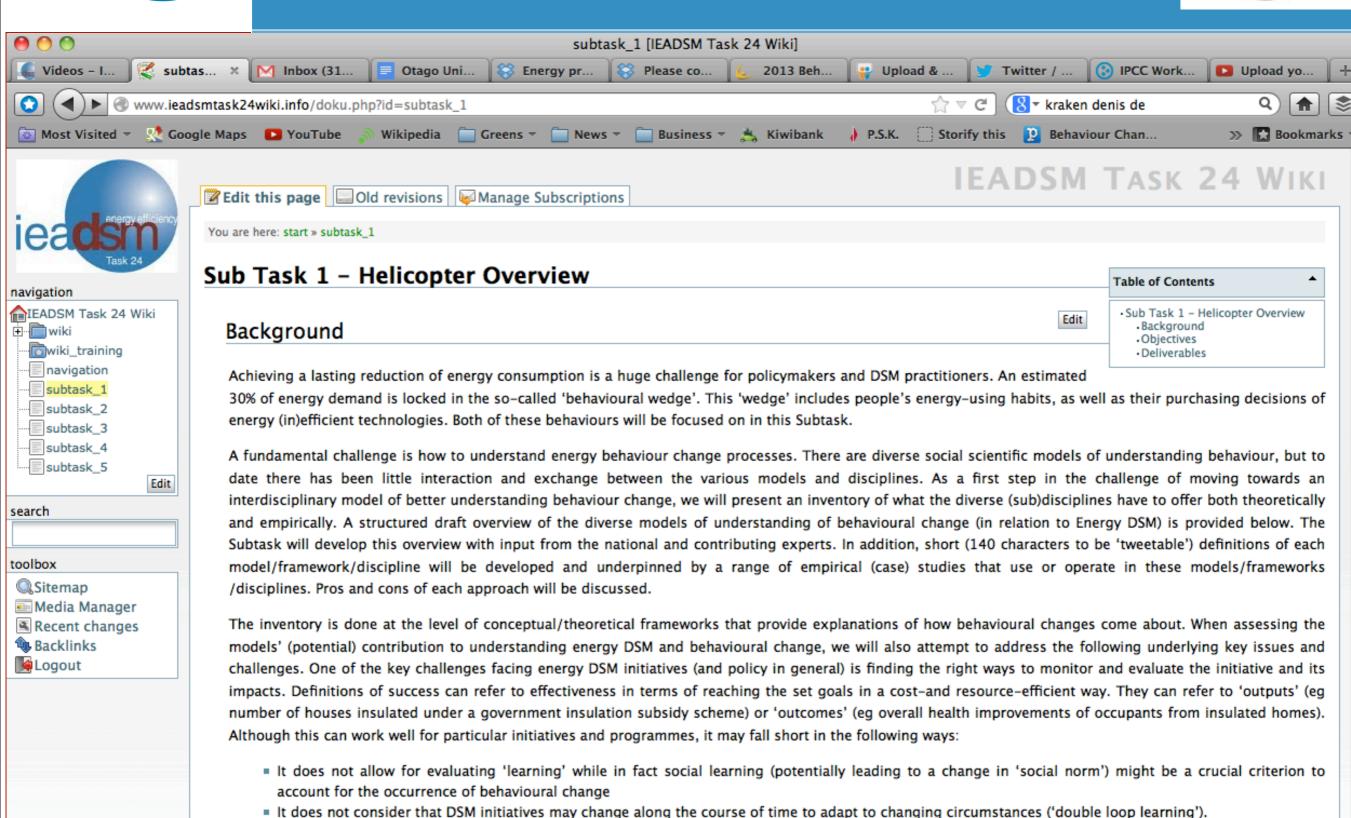






D2: Task 24 Wiki

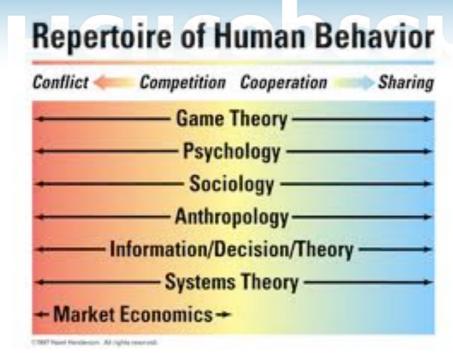


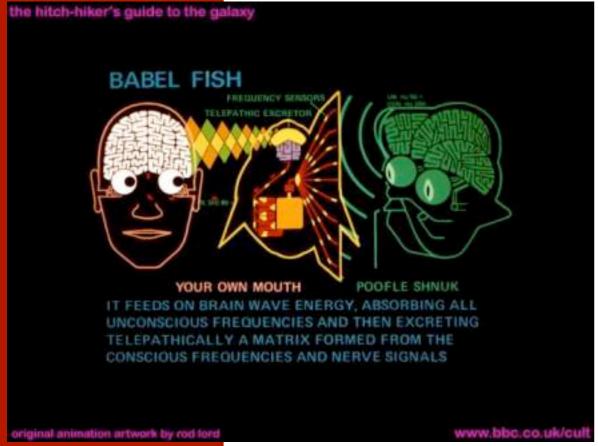




subtask I -Helicopter Overview







- Overview of models, theories, frameworks used in case studies
- Overview of definitions
- Inventory of experts
- Inventory of evaluation metrics and contexts
- Navigation tool to translate theory to be useful by practitioners



worked examples in Task 24

Case studies collected for IEA DSM Task 24 in transport, building retrofits, SMEs and smart metering Note: Blue boxes denote government-led policies and programmes, green boxes denote business, research or community-led programmes and pilots

denote business, research or community-led programmes and pilots										
Domain/Country Cases and used theories/models	Netherlands	New Zealand	Switzerland	ltaly	Austria	Norway	Sweden	Belgium	UK	Other countries
Smart Metering		Prices for Electricity (Otago Uni)	EWZ and EKZ	Time of Use Tariff Theories/Models: Classical Economics		Demosteinkjer Theories/Models: Theory of Planned Behaviour	Clockwise Theories/Models: Constructivist Learning Theory Shared learning		Rettie, Ruth CHARM Theories/Models used: social norms approach practice theory	Spain (Juan Pablo Garçia): VERDIEM Theories/Models: Classical Economics
			Smart Metering EKT Dietikon Theories/Model used: behavioural model of residential energy use by Raaij & Verhallen behavioural economics and social norms/comparisons							Portugal (Joane Abreu): Smart meter feedback in North Theories: Nudge, classical economics, moments of change
			Munx Repower website Theories/Model used: behavioural economics, social norming							
Retrofitting	retrofitting programme		Swiss Building Retrofit Program			Retrofitting of Myhrenenga Housing				
		Theories/Models used: social marketing; social norms; classical economic; TPB Kapiti Coast Eco Advisors: Home	Models: Classical Economics			Theories: TPB				
		Energy Advice Theories/Models: based on TPB	Models: Ethics, long-term visioning							
SMEs	To be decided upon	Energy Cultures in SMEs Theory/model used: Energy Cultures Interpretative qualitative research	Energy-Model and SME-Model from (EnAW) Theories/Models used: Classical Economics Social norm					Build4Change Model: Nudge		
		EECA SME Crown Loans Scheme Theory/model used: originally based on TPB; changed to social learning and social norm theories								
Mobility	used: Psychology: Henry A Murray (1938) and the acceptability/availability	Theory/models used: Norm Activation Theory Elaboration Likelihood Model Stern's Principles for Intervening	2000 Watt on mobility Models: Ethics, long-term visioning				Stockholm congestion tax Models: activity based models		Combining individualistic (eg	Kevin Luten UrbanTrans (Australia) Transport behaviour change based on BJ Fogg
		NZ Post Transport Driver behaviour training Theory/models used: Value Action Gap Theory	Fuel consumption of newly purchased cars Theory of Planned Behaviour (TPB) and Norm-Activation Model (NAM)							
		EECA Driver Behaviour Pilot Theory/Models used: in development, but several behavioural economics and	INCOUCH (INCOME)							



some of the best cases









TRANSPORT: The New Driving, Netherlands

Models used: Psychological models

BUILDING RETROFITS: Retrofitting Myhrenenga Housing, Norway

Models used: Theory of Planned Behaviour

SMART METERING: Smart metering pilots, Switzerland

Models used: Behavioural Economics, social norming

SMEs: Crown loans for SME energy savings, New Zealand

Models used: Classical economics then shared learning



objectives for the next 6 months

Subtask I - Helicopter Overview:

- Finish collection of templates of models and case studies
- · Finish analysis of templates and interactive report-back
- · All information to be put onto wiki
- · Analyse interviews with energy professionals telling their 'energy stories'
- · Collect more energy stories from participating countries (Norway, Netherlands, Switzerland)

Subtask II - Case studies

- Collection of detailed case studies and best practice in four overarching themes
- Includes (filmed) interviews in Austria, Norway, Italy, UAE, Switzerland

Subtask III - Evaluation Tool

- Template to enable better evaluation of successful behaviour change outcomes depending on the stakeholder point of view
- Based on 'Beyond kWh' paper by Karlin and Ford (2011)

Subtask V - Expert Platform:

- Continued growth of experts to the platform
- · Utilisation of platform, including uploading all content from workshops and Subtasks and Wiki
- · Create content including blogs and webcasts for DSM University
- · Update whole platform to Ning 3.0 when it goes live
- · Continue to foster engagement and 'matchmaking' among experts tell the stories
- · Continue publicising of Task 24 including 4 international conferences (eceee, BECC, UAE, ELCAS)

Subtask 0 - Administration:

- Advisory Group meeting in September (virtual)
- ExCo meeting and report-back Switzerland
- National expert workshops and webinars (NO, CH, 2 webinars)
- ECEEE summer study, ELCAS, BECC conference paper presentations



revised budget



		personmonths Sea Rotmann per	personmonths Ruth Mourik per	total costs Sea	total costs Ruth	
Description personmonths/costs	Cost (Euro)	subtask	subtask	Rotmann	Mourik	total sum
Subtask 0	4500	3	1.5	13500	6750	20250
Subtask 1	4500	6	3	27000	13500	40500
Subtask 2	4500	6	3	27000	13500	40500
Subtask 3	4500	6	3	27000	13500	40500
Subtask 4	4500	5	2.5	22500	11250	33750
Subtask 5	4500	4	2	18000	9000	27000
Total personmonths/costs		30	15	€162000	€54000	€202500
Description costs	Costs					
		costs travel Sea Rotm	ann and Ruth Mouril	k including extended	d stay in Europe of S	Sea Rotmann and
OAs travel costs	55000	frequent face to face	meetings RM and SR	R (6 times travel SR	to Europe from Nev	v Zealand)
stakeholder analyses	5000	separate meetings an	d costs associated w	rith stakeholder ana	lyses	
website and data management	10000	including website, we	binars, VC, social me	edia, blogs/vlogs, da	atabase etcetera	
overheads and incidentals	7500					
Total	€77500					€280000



the budget: current





- travel costs and film, websites, administration etc to date: €27,000 (Ruth €5,000; Sea ~€22,000)
- person months to date: ~ 17 months (12m Sea; 5m DuneWorks)
 €76,500
- in-kind contributions from countries and experts: >€60,000 (UKERC Meeting Place alone spent >£35,000 on Oxford workshop; NZ sponsored NZD\$3600 on workshop in Wellington; NZ ExCo sponsored NA OA NERI Conference attendance NZD \$1000)
- experts providing in-kind expertise from: France, Spain, Italy, UK,
 Sweden, Finland, Austria, Germany, Australia, Portugal, UAE



timetable

Subtasks	2012		20	13	2014	
Subtask 0 - Admin						
Subtask I - Helicopter Overview						
Subtask II - Case Studies						
Subtask III - Evaluation Template						
Subtask IV - Recommendations						
Subtask V - Expert Platform						

- starting date according to work plan: February 2012
- official starting date according to ExCo (Espoo): July 2012
- If we get 8 or more participating countries (Austria and/or UK), our task will be extended at no extra cost until December 2014



questions or comments?



