

# The Feasibility of a Virtual Tourism Observatory for Europe

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Sean White, Tourism Intelligence Unit, ONS

### **Presentation Outline**

- Vision for the VTO
- What sort of collaboration model?
- The Project Approach
- The Policy, Research and and Data Frameworks
- The Database development and web 'front end'
- Ongoing and Future Work

### Context

What is the EC vision for a future Virtual Tourism Observatory?

- A statistical database for informed, evidence-based policy making.
- The analysis section of the Observatory is expected to deliver regular reports.
- The policy watch section will monitor policy developments in the Member States.

"The Virtual Tourism Observatory is meant to become a central source of information for policy makers, tourism stakeholders and researchers. It will provide reliable, comparable and up-to-date information. It will identify trends and developments in the tourism industry and will provide explanatory analysis".

The challenge is to ensure that users are motivated to engage or collaborate with the VTO..

### Vision for the VTO

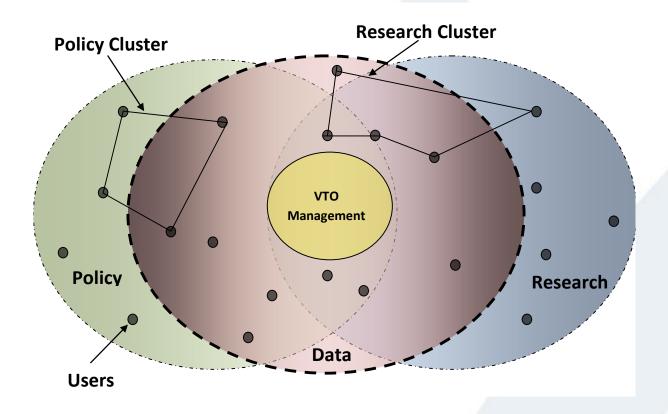
- A repository for up to date information about the tourism sector in Europe encompassing data, policy and research
- Managed and hosted by DG-ENTR on the Europa website
- Potential to develop collaborative working through the VTO User Community
- Drawing on existing data and information with scope to facilitate the presentation of national and regional level information

### A Vision for the VTO

- User friendly interface with easy download facilities, user defined content and analysis tools
- Robust data framework and metadata structures for data and documents that allow the system to be expanded
- Scope for inclusion of other sources of information, e.g. OECD, UNWTO, member states data, sustainability indicators
- Potential vehicle for presentation of TAC Member States Reports

### A vision for the VTO

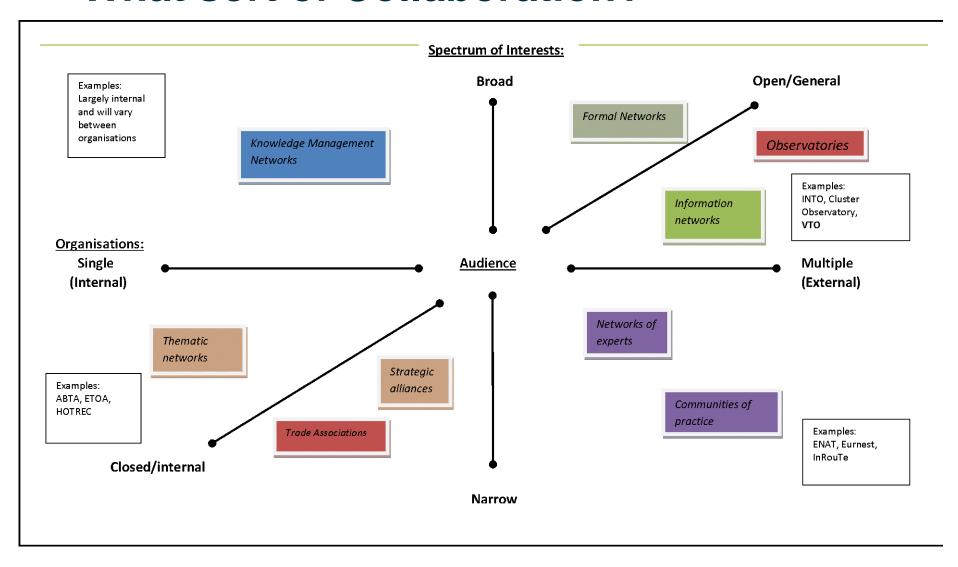
Schematic representation of the VTO



# What should an observatory do?

- "An observatory should be outward looking, have a strong focus in data and research presentation without necessarily providing interpretation of this information (which is often left to the user). An observatory may provide linkages to relevant policy activity in the field and be used to inform the policy making process but it is not usually the purpose of an observatory to steer a particular policy agenda".
- The VTO is not a knowledge network but does share some of the characteristics of KNs – there is potential for the VTO to develop collaborative working, e.g. through project working

### What sort of Collaboration?



# **Project Methodology**

- Phase 1: Data and Information Gathering
  - User Needs Survey
  - Data Sources Survey
  - Survey of Existing Observatories and experts
  - Policy, data, and research frameworks
- Phase 2: Analysis of data and information
  - Includes Gap analysis and derived variables
- Phase 3: Database Development and web "front end"
- Phase 4: Future Management Strategies

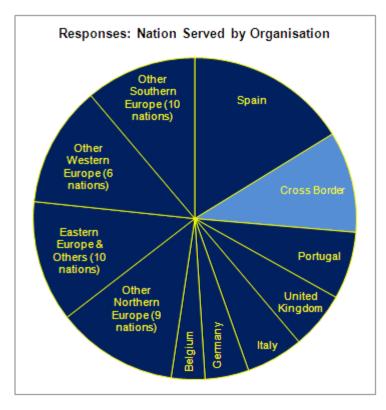
# **Building the framework**

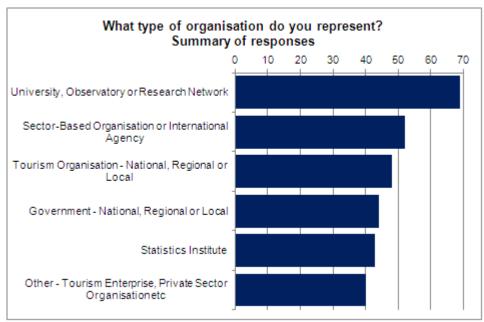
- The three main themes of the VTO data, research and policy were developed into a framework for the database development based on identifying user needs through survey work and secondary analysis
- We know consider these in more detail.

# **Survey of User Needs**

- We have sought potential users' views on how data, research and policy issues should be presented in the VTO
- the survey focused on the following:
  - What data/information is currently used and how important?
  - What are the important themes/issues?
  - What are the gaps?
  - How should data/information be presented?
  - What are the priorities?

# Response to the Survey





296 completed responses were received in total from 41 different countries (sample frame: 1,200 contacts)

# The Policy Framework

### Tourism Policy Priority Areas/Issues:

**Growth and competitiveness** 

Performance of markets

**Seasonality** 

**Enterprise performance and support** 

Innovation and ICT

**Employment and labour supply** 

Skills and training

**Quality and standards** 

Climate change and resource efficiency

**Transport and access** 

Social inclusion/accessibility

Natural and cultural heritage

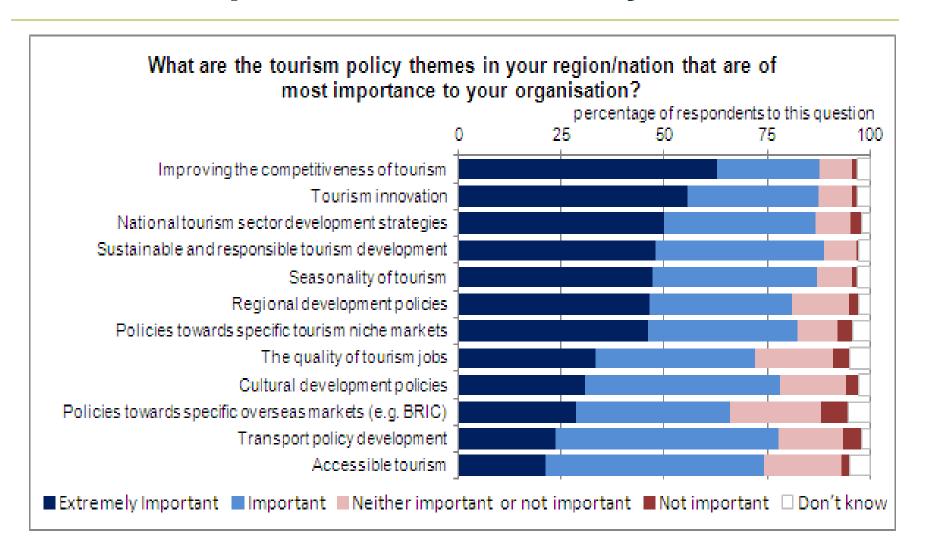
Area development, diversification, regeneration

**Delivery structures** 

**Budgets and funding** 

These Policy issues have been assessed against key data variables to identify information that informs these issues

# **User Requirements for Policy**



# **Policy Priorities**



# **Key Policy Areas**

- Improving the competitiveness of tourism
- Actions towards Sustainable Tourism
- Innovation in the tourism sector
- The seasonality of tourism
- National and regional tourism policy

Which leads to theme analysis...

	Theme 4								
	The seasonality of tourism  Growth and Competitiveness, Performance of Markets (see section C2)								
Links to other policy areas									
Potential Indicators	School / Work Holiday Patterns (All indicators sourced from appendix C1.4)								
	Second + Holidays & breaks Seasonality - Good Practice Availability of monthly data Indicators of seasonal smoothing								
	Seasonality of Employment								
Datasets	Most of the indicators for this theme are produced on an ad-hoc basis either nationally or locally.								
	Labour force survey data available quarterly could provide some insights into the seasonal nature of employment in tourism.  Quarterly employment data is included in the database development in section D of the report								
	Monthly data from Eurostat on Arrivals and Nights spent in accommodation, together with occupancy rates could be an important source of information for seasonality and this is included in the database development in section D of the report.								
Comparability	Comparability of data on employment and occupancy rates and arrivals at accommodation is good at the EU level.								
Data gaps & limitations	Data on school and second holidays would be of use and good practice and experience in analysing the impacts of tourism sustainability would be of use in the policy/research watch area of the VTO.								
Summary of current situation	There is already substantial data included in the database development that informs the area of seasonality. Developing further links to good practice and research/policy material in the area would be a further step for the VTO moving forward.								

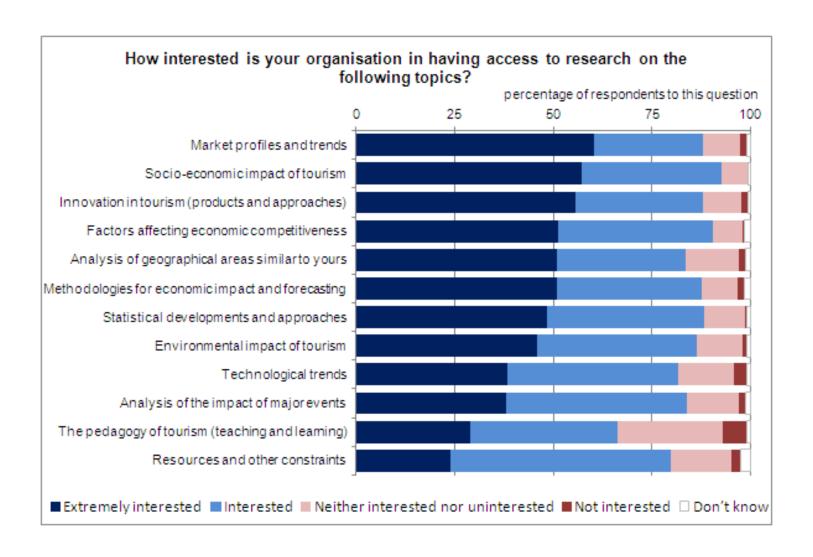
### The Research Framework

# Review of Research

Sources

Main Research Themes	Research Sub-Themes
Economic Competitiveness	Destination Competitiveness and Management
	ICT, the Internet & Mobile Technology
	Skills and Human Capital
	The Economic Context
Environmental Pressures	Climate Change
	Sustainable Destinations
	The Impact of Oil and Energy
Tourism Measurement and Modelling	Statistical Approaches to Measurement at National Scale
	Modelling and Impact Assessment
	Sub-National Measurement:

# **User Requirements - Research**



### **Research Priorities**



### **Final Themes**

- Tourism Trends
- Economic Impact and competitiveness of tourism (incorporating 'volume and value')
- Innovation in the Tourism Sector
- Social impacts of tourism
- Environmental impacts of tourism

### The Data Framework

- Identifying potential sources of data around a set of key topic areas - informing the database construction
- Metadata standards and a simplified set of metadata requirements developed
- Refinement of the Tourism 'data map' taking account of policy priorities identified

### **Tourism Data Map**

#### Tourism Industries - Economic data

GVA
Compensation of employees
Turnover
Number of enterprises
Size / age of enterprises
Business births & deaths

#### Tourism Industries – Employment data

Number of employees / self employed Part time / full time Earnings Characteristics (age, gender, nationality etc.)

#### Tourism Products – expenditure data

Household final consumption expenditure Public transport trips by mode and purpose Maintenance of second homes Sport & cultural ticket information

#### Other Products - expenditure data

Spend by product at airports / ports Information about shopping day trips Non ticket spend at cultural, sport activities Personal transport trips by purpose

#### **Outbound Visitors**

Visits, Nights, Expenditure
Nil nights, transit
Purpose of visit
Country of visit, nationality
Mode of travel
Points of departure & arrival
Whether package
Activities undertaken
Purchases made
Domestic purchases en route
Visitor characteristics

#### **Inbound Visitors**

Visits, Nights, Expenditure
Nil nights, transit
Purpose of visit
Country of origin, nationality
Mode of travel
Points of arrival & departure
Whether package
Accommodation type(s)
Location(s) of accommodation
Activities undertaken, Purchases made
Visitor characteristics

#### **Domestic Overnight Visitors**

Visits, Nights, Expenditure
Purpose of visit
Location of visit
Accommodation type
Mode of travel
Activities undertaken
Purchases made
Visitor characteristics

#### **Domestic Day Visitors**

Visits, Expenditure
Purpose of visit
Location of visit
Mode of travel
Activities undertaken
Purchases made
Visitor characteristics

#### **Location Data**

Airport / port arrivals & departures
Detailed origin / destination data
Visits to attractions
Accommodation stock
Occupancy data
Location of second / holiday homes
Locally produced survey data

#### **Derived tourism data**

#### **Tourism Satellite Account Tables**

Tourism direct GVA, tourism ratios Tourism direct employment Value of tourism within regions

#### Other research & data

Academic papers
Tourism multipliers
Local research
Event impact research
Sustainability assessments and indicators

# **User Requirements - Data**

five tourism data variables which are considered extremely important by over 60% of respondents and these are as follows:

- Overnight inbound tourism (numbers and spend)
- Origin of inbound visitors
- Economic data on tourism industries
- Overnight domestic tourism visits (numbers and spend)
- Tourism employment data

### **Data Priorities**



# **Database and Web Development**

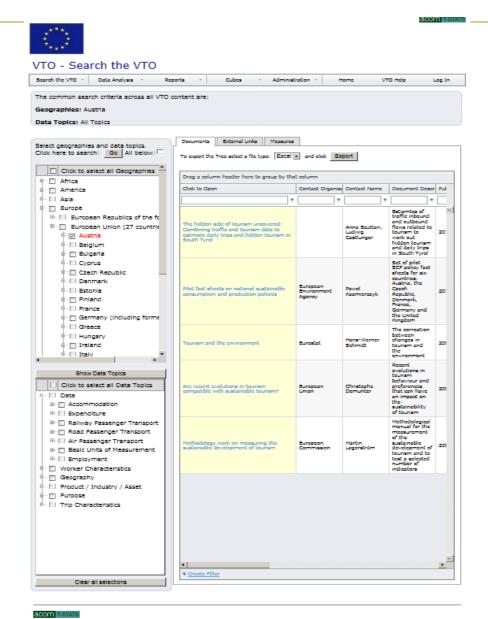
- Selected datasets included in a VTO 'demonstration site'
- Additional data included in separate database files for use by EC
- Gap analysis carried out
- Metadata developed and included in demonstration site (this applied to research and policy material)

BASIC TOURISM TYPES		BASIC VARIABLES	GEOGRAPHIES	TSA & SIMILAR
omestic	Overnight	Number of Nights	National	GDP
nbound	Same Day	Number of Trips	Sub-Regional	Employment
Outbound		Expenditure	Regional	Value of Tourism
TOURISM INDUSTRIES		Accommodation Capacity	Non NUTS Geography	"CHALLENGING"
Accommodati	on	Number of Visitors	Single Location	Incomplete Data
Passenger Transport		Number of Arrivals	Origin - Destination	
Food and Drin	ık	Indicative VTO Datase	Tourism & Non Tourism Datasets	
Cultural		highlight how the Obser	vatory would cope the	Non Statistical Information
Sport & Recre	ation	· ·	·	Heritage Sites Locations
CHARACTERISTICS  Trip Characteristics  Visitor Characteristics		CONSIDERATIONS	DATA SOURCES	Funding Information
		Seasonality (Monthly and /	Eurostat	_
		or Quarterly)	Non Eurostat	Organisation Details
		Markets (by Home Location)	Nat Stats Orgs	Sustainable tourism indicators
Worker Characteristics  Job Characteristics		Markets (by Visitor	UN / OECD etc	Qualitative Data
		Characteristic)	Industry Orgs	
		Data for rates etc (e.g. population, area)	Sub-National Orgs	Other, e.g. safety

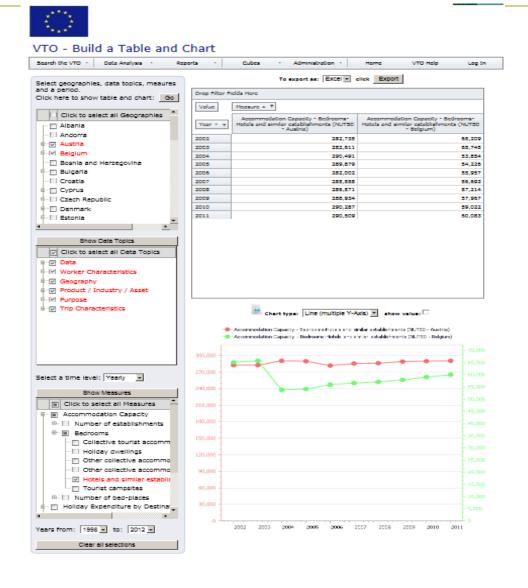
# **Linking Data and Policy Priorities**

		E	Measures								Breakdown										Pol	licy F	rion	ity & I	Issue	35					
Description	Data Map	Supply, Demand, Budgetary data. Policy Good Practice, Into, Research, Assessment	lumber of Visits	lumber of Visitors	tumber of hights	Ionetary (8 other) Value	Amber of Businesses	mployment	tal Purpose	lator Characteristics	rierprise Characteristics	adustries / Products	Anher Characteristics	ransport Mode	ocation Specific	movifi and competitiveness	erformance of markets	easonalty	riterprise performance and support	movation and ICT	mployment and labour supply	Ails and training	Auality and standards	limate change and resource efficiency	ransport and access	ocial inclusion/ accessibility	latural and cultural hertage	rea development, diversification, regen.	elivery structures	udgets and funding	
Visits, Expenditure by purpose - dom. day	X	D	X	×	-	X	-	542	×	2	w	-	>	-	-	X	X	×	143	-	SM	92	0	0	-	93	-	-	0	60)	-
Visits, Nights, Expenditure by purpose - dom, overnight	×	D	x	×	×	×			×							x	x	x													
	×	D	Ŷ	Ŷ	ŝ	x			x							x	x	â													
Visits, Nights, Expenditure by purpose (inc Transit) - inbound	x	D	Ŷ	2	Ŷ	x			x							x	x	2													
Visits, Nights, Expenditure by purpose (inc Transit) - outbound	×	D	Ŷ	2	^	Ŷ			Îx.			100				×	Ŷ	^:									1331				
Activities undertaken, Purchases made - dom. day				550	100							×															×				
Activities undertaken, Purchases made - dom, overnight	×	D	X	X	×	×			X			×				×	×										×				
Activities undertaken, Purchases made - inbound	×	D	X	×	×	X			X			×				×	X										X				
Activities undertaken, Purchases made - outbound	X	D	X	X	X	X			X			×				X	X										X				
/isitor characteristics - dom. day	×	D	X	×		X				×						×	X									X					
/isitor characteristics - dom, overnight	×	D	X	×	X	X				×						X	X									X					
Visitor characteristics (inc nationality) - inbound	×	D	X	×	X	X				X						X	X									X					
Visitor characteristics (inc nationality) - outbound	X	D	X	X	X	X				×					100	X	00									X					
Country of origin (inc. Markets such as BRIC) - inbound	×	D	×	×	×	X									×	X	X														
Points of arrival & departure - inbound	X	D	X	X	X	×									X	×	X								×			×			
Points of departure & arrival - outbound	X	D	X	×	X	X									X	X	(X)								X			X			
Detailed origin / destination data	X	D	X	X:											X	X	X								×			X			
Airport / port arrivals & departures	×	D	X	×		X									X	×	×	X										X			
Visits to attractions	X	D	X	X		X			X	X		X			X	X	×	X	X								X	X			
Sport & cultural events: ticket & non-ticket spend	X	D	X			X			X			X			99	X	X	X	X								X	X			
Occupancy data	X	D	X	×					X	X		×				X	X	X	X									×			
Public & Personal transport trips by mode and purpose	×	D	X			×			X			X		×		×	×							X	×						
Employment inc. Employees / self employed / Part/Full-Time	X	S						×	17000			X	X			x		X			X										
Tourism direct employment		S&D						×				X				×	X				X										
Tourism direct GVA, tourism ratios		SAD				×						X				×	×														
Tourism Satelite Account Tables		SAD				×						×				X	X														
Value of tourism within regions		5 & D				x		X				X				X	X											×			
GVA - inc. Market Share of tourism industries	X	s				×		777				×				x	X		×									77			
Compensation of employees	×	s				×						×				×	×		×		×										
Turnover	x	s				x						×				x	×		×		2										
Number, size & age of enterprises	x	5				-					×	x				x	^		x		×										
	x	s					X				0	×				x			x		^							×			
Business births & deaths	×	0		×		-	*							35					*						×			- 0			
Mode(s) of travel - dom, day			X	1.5		X								×		×								X							
fode(s) of travel - dom, overnight	×	D	X	×	X	X								X		X									×						
lode(s) of travel - inbound	×	D	X	×	×	X								X		×								×	×						
Mode(s) of travel - outbound	×	D	×	×	×	×								X	100	×								×	×			2.0			
Location(s) of visit - dom. day	×	D	X	×	1	×									×	X									×			×			
Location(s) of visit / accommodation - dom. overnight	×	D	X	×	×	X									X	×									×			×			
Location(s) of visit / accommodation - inbound	×	D	X	×	×	X									X	X												×			
Location(s) of visit - outbound	×	D	X	×	×	X			He						×	×												×			
Accommodation type(s) - dom, overnight	X	D	X	×	×	X			X			×				X															
Accommodation type(s) - inbound	X	D	×	×	×	X			X			X				X															
indicators of comparative quality competitiveness (e.g. "stars")		A-					X				×					×															
ndicators of comparative price competitiveness		В														X															

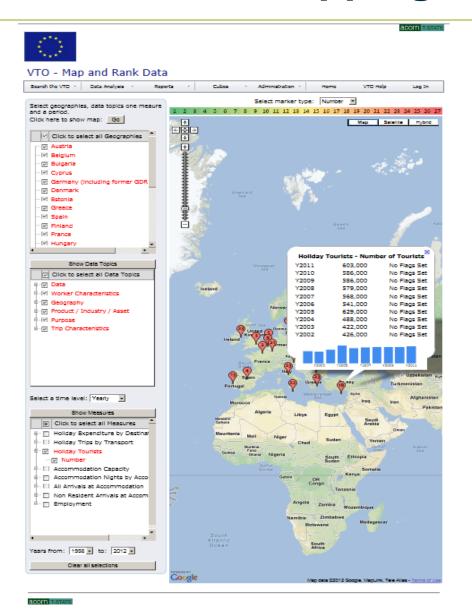
### Web 'front end' - 1. Search



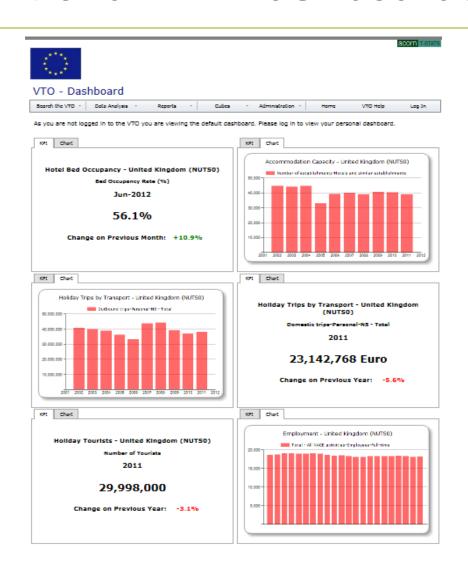
### Web 'front end' - 2. Build tables/charts



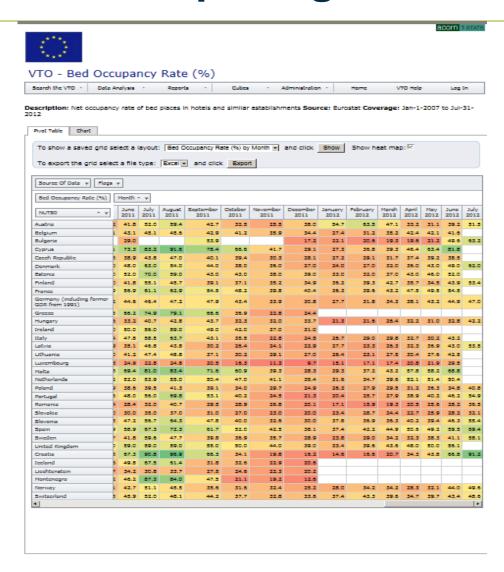
# Web 'front end' - 3. Mapping



### Web 'front end' - 4. Dashboards



# Web 'front end' – pivot grids



# **Next Steps**

- Preparing video demonstrations of the website developed and then publication of report
- EC carrying on the development of the VTO using their own systems and web standards

# Thank you for your attention

Contact: Sean.White@ons.gsi.gov.uk

Tel: +44 1633 455687