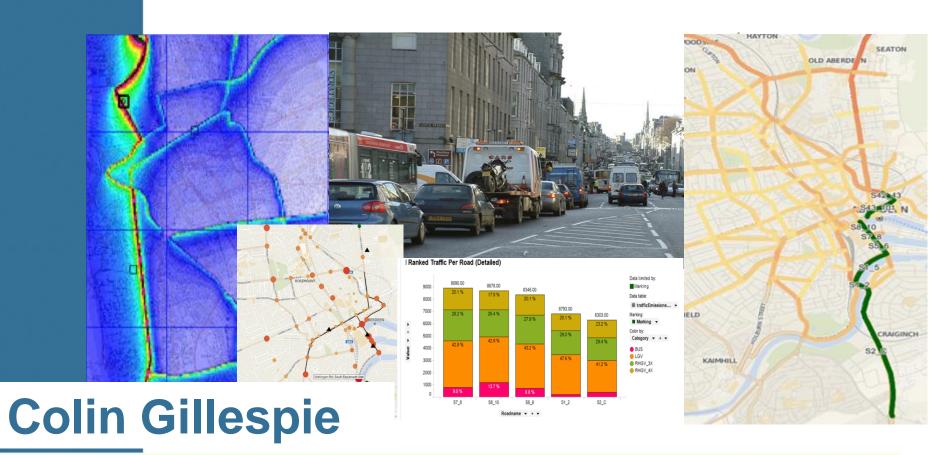


Enhanced Data Visualisation Tools





Presentation Structure

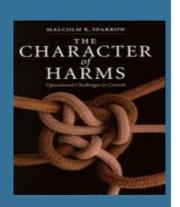
Data Visualisation Project:

- Illustrating SEPA's use of visualisation tools
- Build on the capacity developed within the Aberdeen Pilot Project
- Developing data analysis and visualisation tools for Air Quality in Scotland website
- Stakeholder engagement

National Teaching Resource:

- Citizen Science project driver for National Teaching Package
- Developing the project and partners involved
- What's in the National Teaching Package





Problem Solving

- Key Points (Malcolm Sparrow Training)
 - Define the problem to be solved
 - Gather all available data/information and analyse/visualise
 - Identify critical data and address uncertainty
 - Turn data into information

With support from SG, TS, HPS and LAs SEPA has developed a multi-agency HARMS project – this has allowed specific resources to be allocation.

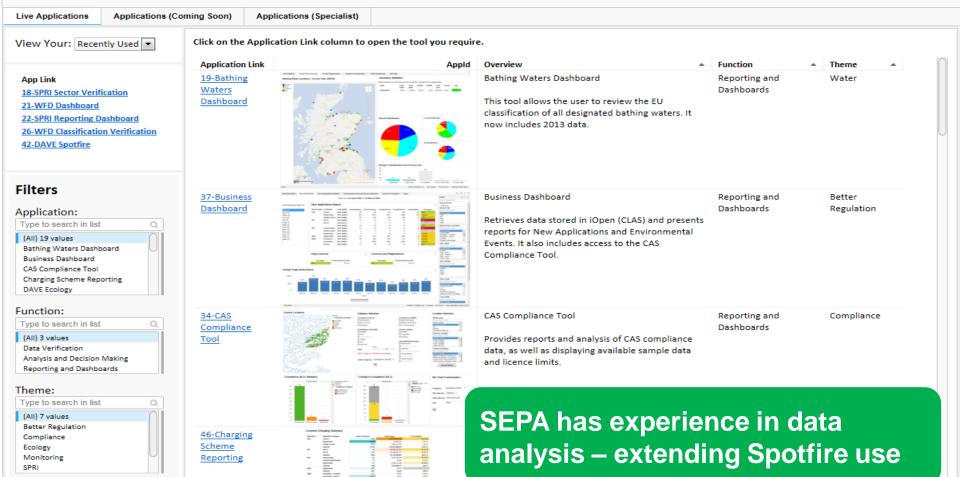


SEPA's Environmental & Spatial Informatics Unit (TIBCO – Spotfire)



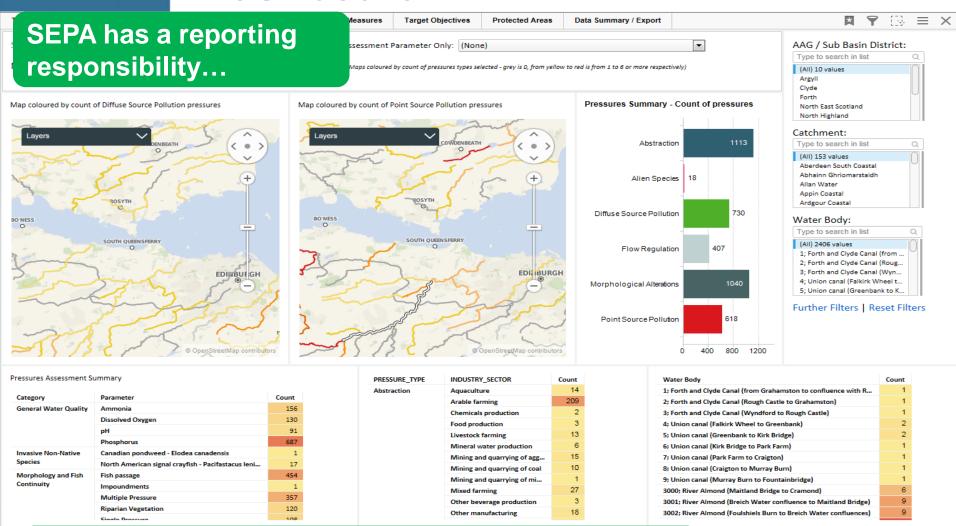
Home Page. - Welcome to the Informatics Hub

Logged in as: Alan.Hills





Water Framework Directive Dashboard

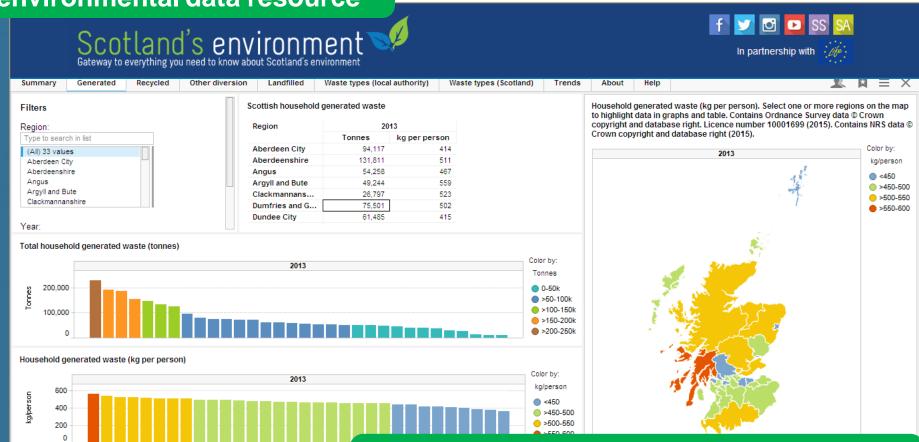


Web Based Interactive Data Analysis/Visualisation



Using such tools beyond SEWeb

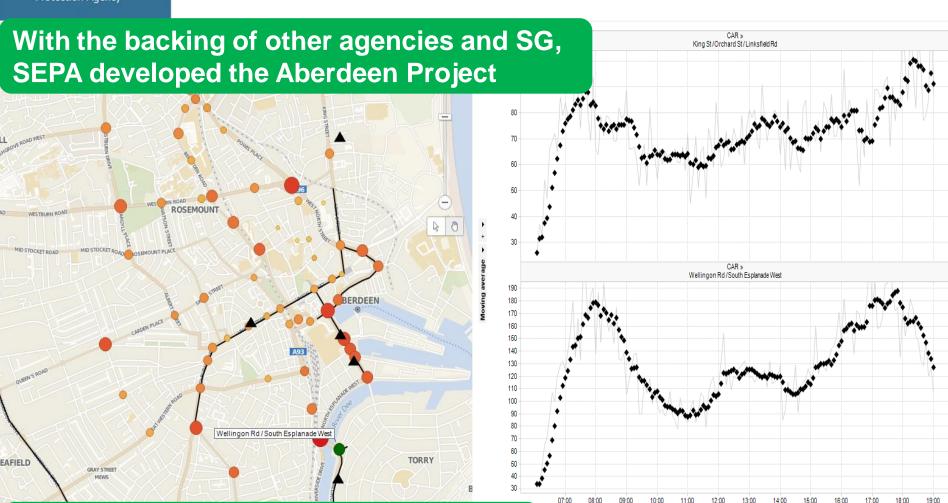
SEWeb is a multi-agency environmental data resource



SEPA has developed Spotfire tools for a range of environmental data within SEWeb



Extending it to other data sets



Spotfire provides an interactive tool with the potential to link wider data sets



Scottish Air Quality Database Development Project



Website Development Project:

- Build on the capacity developed within the Aberdeen Pilot Project
- Develop AQ data analysis and visualisation tools for the Air Quality in Scotland website
- Enhancements will assist Local Authorities in their air quality duties (including additional requirements introduced through the LES)
- Providing appropriate information for the general public



What are we planning next...

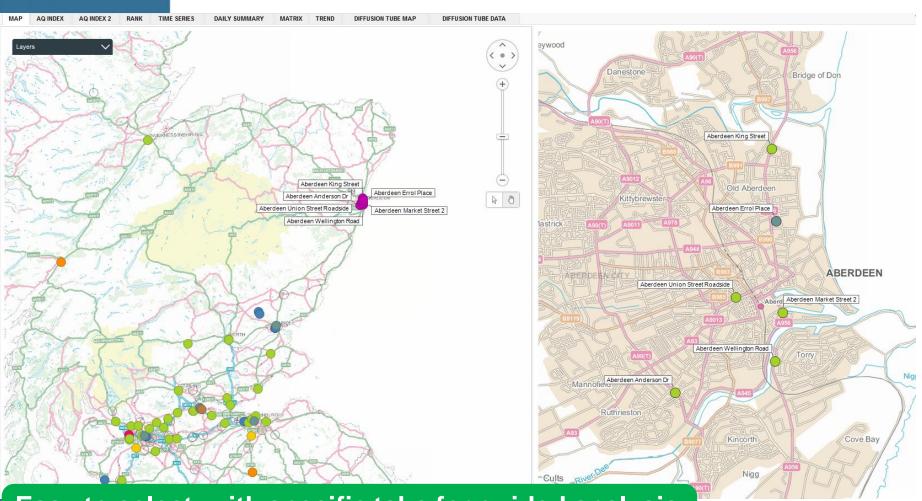
- Working with wider stakeholders and other agencies, LAs and Ricardo-AEA
- Ensuring that we deliver LAs requirements now and in to the future
- Developing different levels of tools, looking at different reporting requirements

General Public Tools Specialist Reporting Tools Spatial Analysis Tools

All fully interactive...



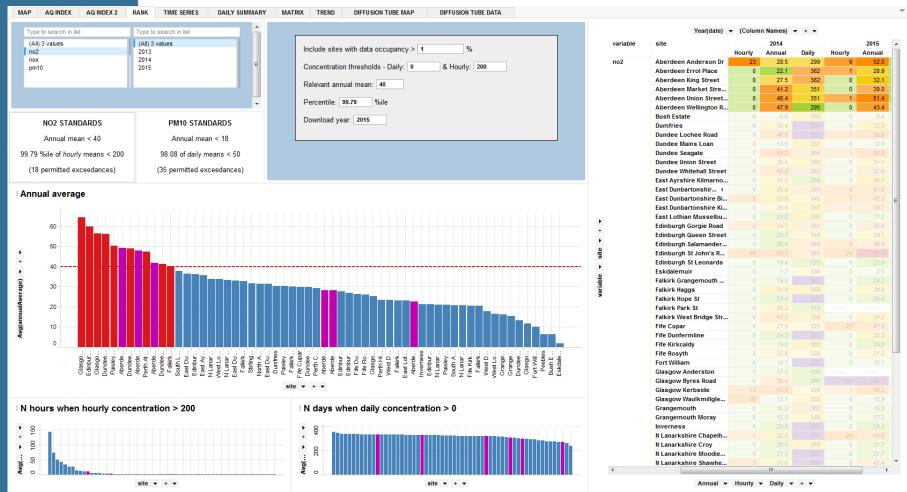
General Public Tools



Easy to select, with specific tabs for guided analysis of the national AQ data – national to local



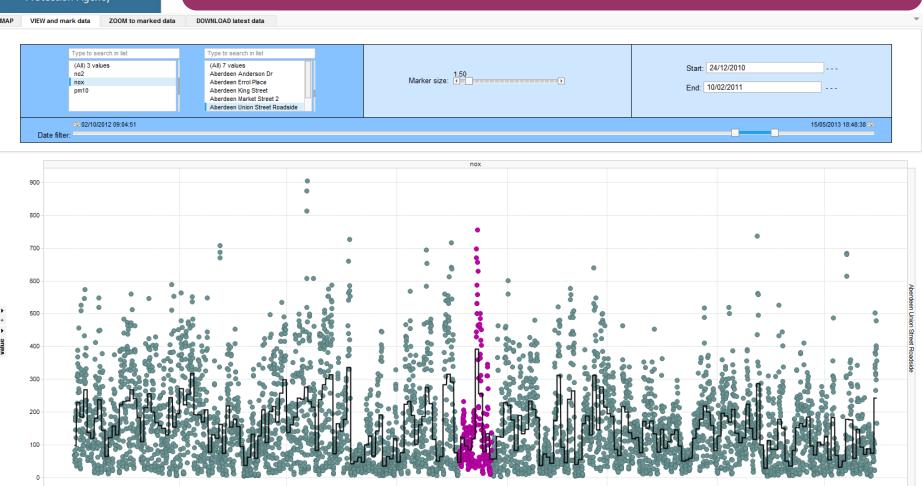
General Public Tools



Select and rank historic and live data, highlighting where selected sites sit nationally



Specialist Reporting Tools



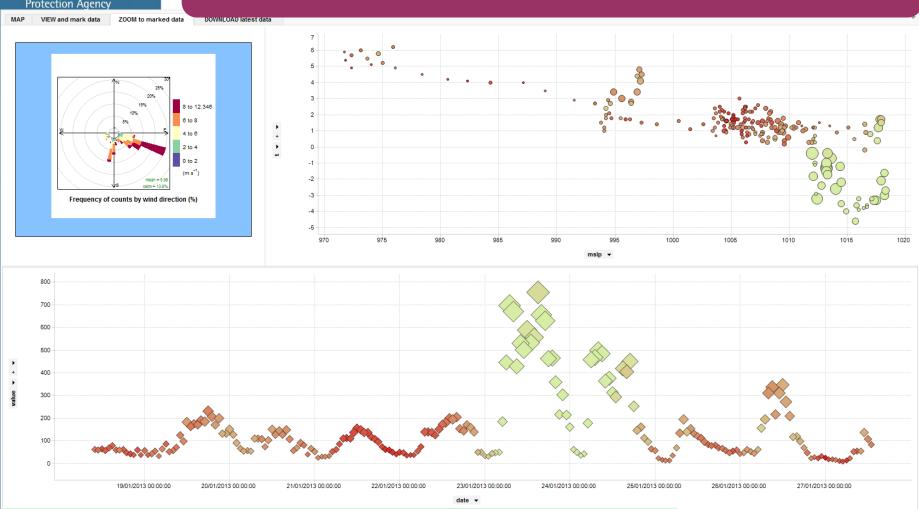
01/02/2013 00:00:00

Select individual sites, data sets, looking at national, regional and local pollution events

01/05/2013 00:00:00



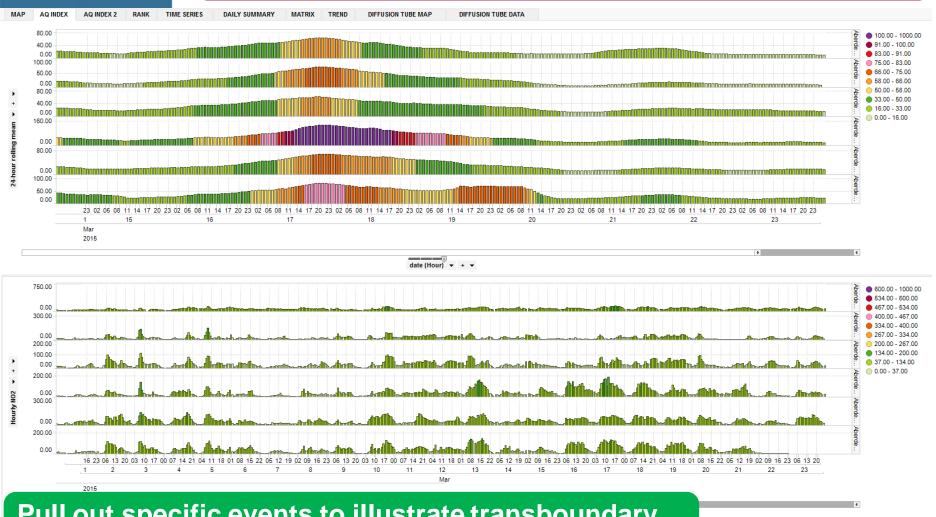
Specialist Reporting Tools



Start to link with other data sets, including weather and OpenAir to create a versatile interactive tool



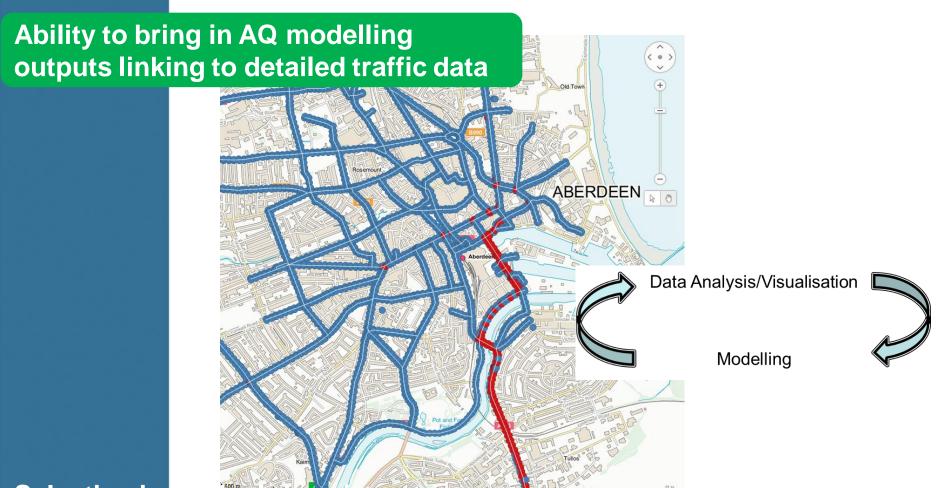
Specialist Reporting Tools



Pull out specific events to illustrate transboundary issues rather than local sources



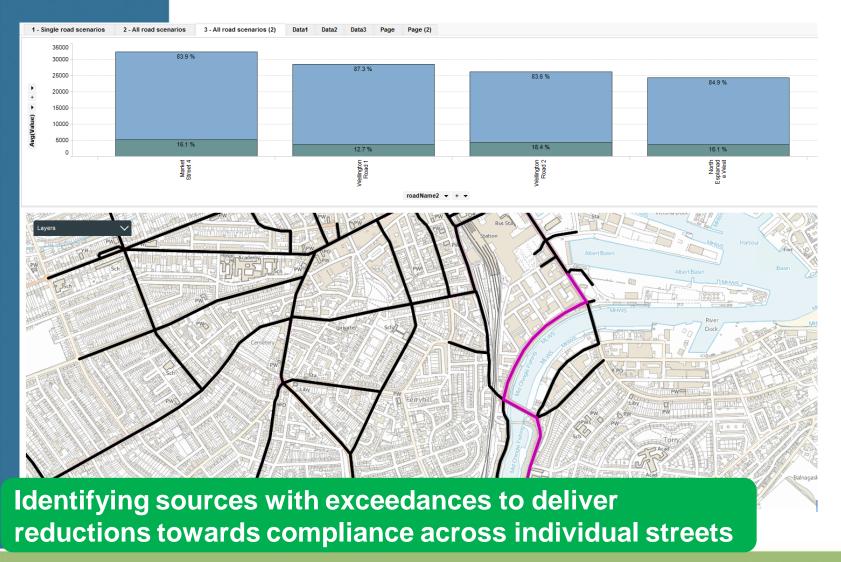
Spatial Analysis Tools



Selecting individual areas/streets to generate scenario testing tools for reduction measures



Spatial Analysis Tools





Stakeholder Engagement

SAQDDP 24.4 Stakeholder Engagement		2014/15		2015/16												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	2016/17
Stakeholder Engagement Strategy	Baselined Document															
Stakeholder Workshops		Prep	Workshop	Follow up				Prep	Workshop	Follow up			Prep	Workshop	Follow up	
SAQDDP Webpages Launch				Engagement with the media											media	April 2016 Go Live
Individual Stakeholder Meetings/Webinars	Transport Scotland	Date Provider Meetings	SUAQ Steering Group			SUAQ Steering Group			Tool Demo Webinars	SUAQ Steering Group			SUAQ Steering Group	Tool Demo Webinars		Lessons Learned
SEPA Internal Communications			Internal Bulletin on Project Scope		"Good News" internal repository in		•		"Good News" tools for reviewing						Internal Bulletin on Project	"Good News" webpages live

- Go Live April 2016
- 3 main stakeholder workshops at key milestones: requirements, tools demo, launch
- 1st Stakeholder Workshop 14th May
- Engagement with Scottish Urban Air Quality (SUAQ)
 Steering Group throughout development/implementation phase
- Continual engagement with stakeholders...