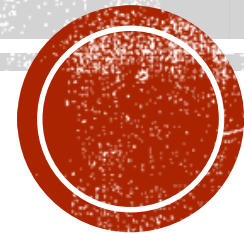


THE AIR QUALITY PLANS DEVELOPED FOR OZONE IN NORTH REGION OF PORTUGAL

A. MONTEIRO ET AL



UNIVERSITY OF AVEIRO, PORTUGAL

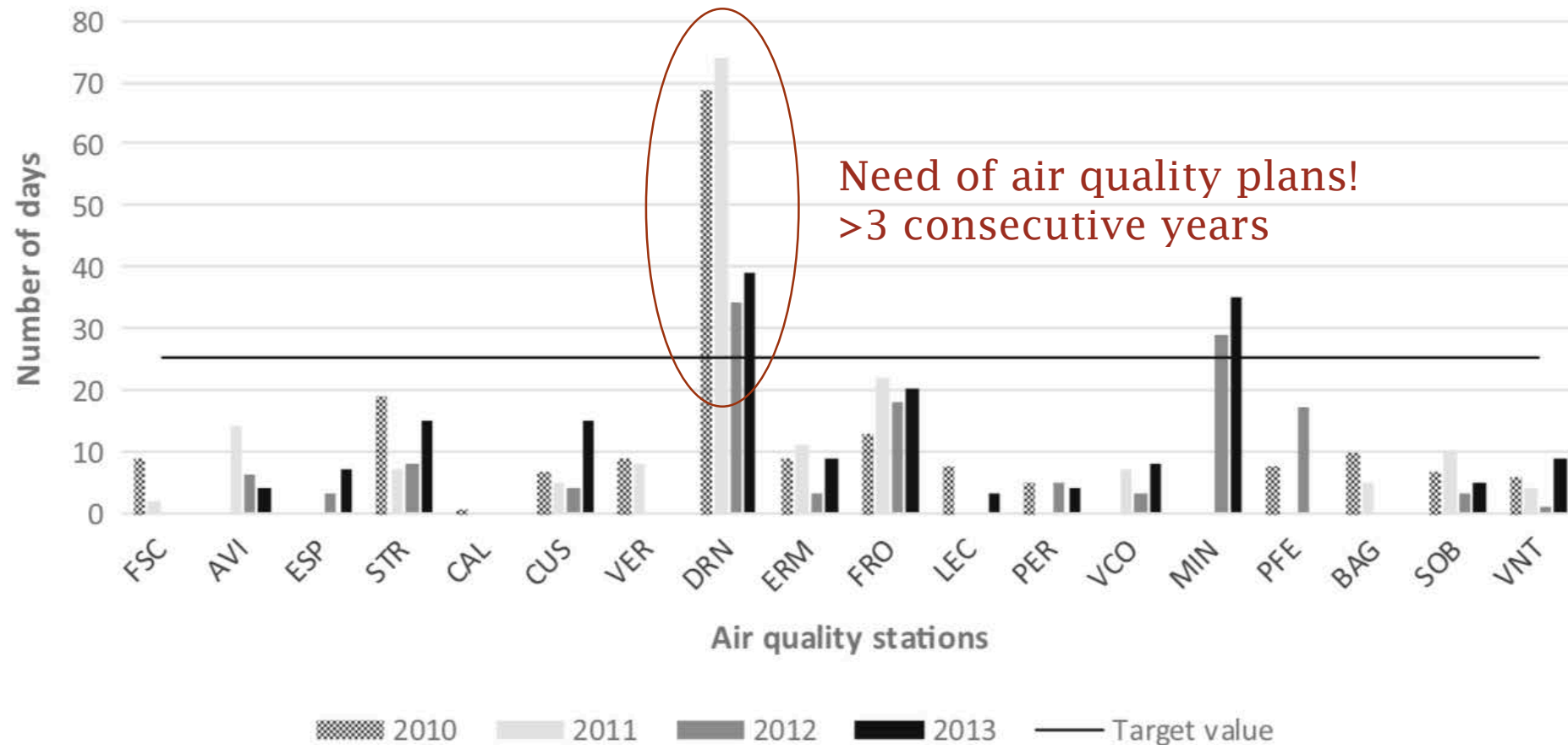


TAIEX workshop on ozone

Madrid, 22 Nov 2018

OBJECTIVE: air quality plan for O_3

Exceedances of the O_3 target value in North region of Portugal



THE AIR QUALITY I



Candidatura NORTE 2015
**PROMOÇÃO DO
DESENVOLVIMENTO REGIONAL**

Eixo Prioritário I
Governança e Capacitação Institucional
NORTE - 07-0927-FEDER-000137

NORTE2015

Ação 3



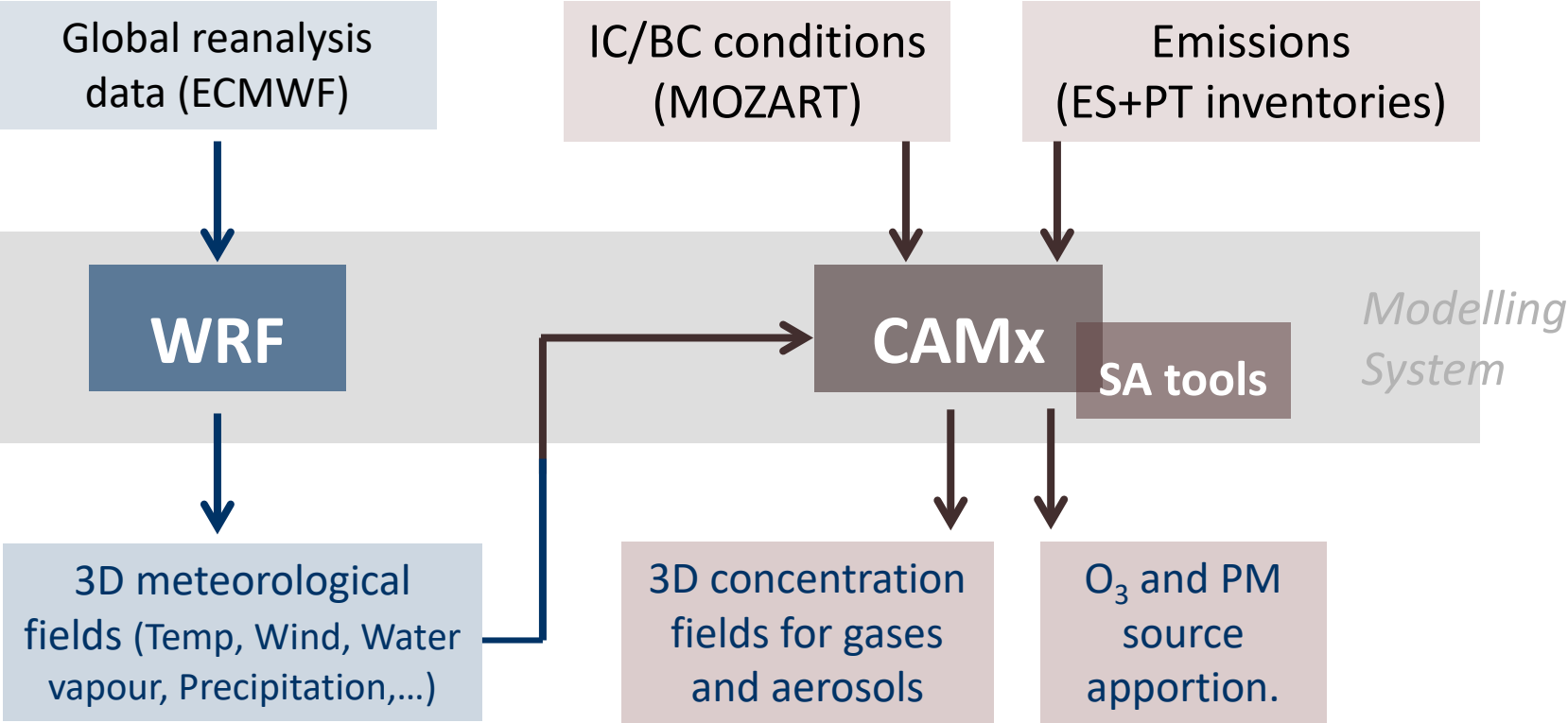
Ambiente e
Ordenamento do Território

Elaboração de Plano de Qualidade do Ar de Ozono da
Região Norte

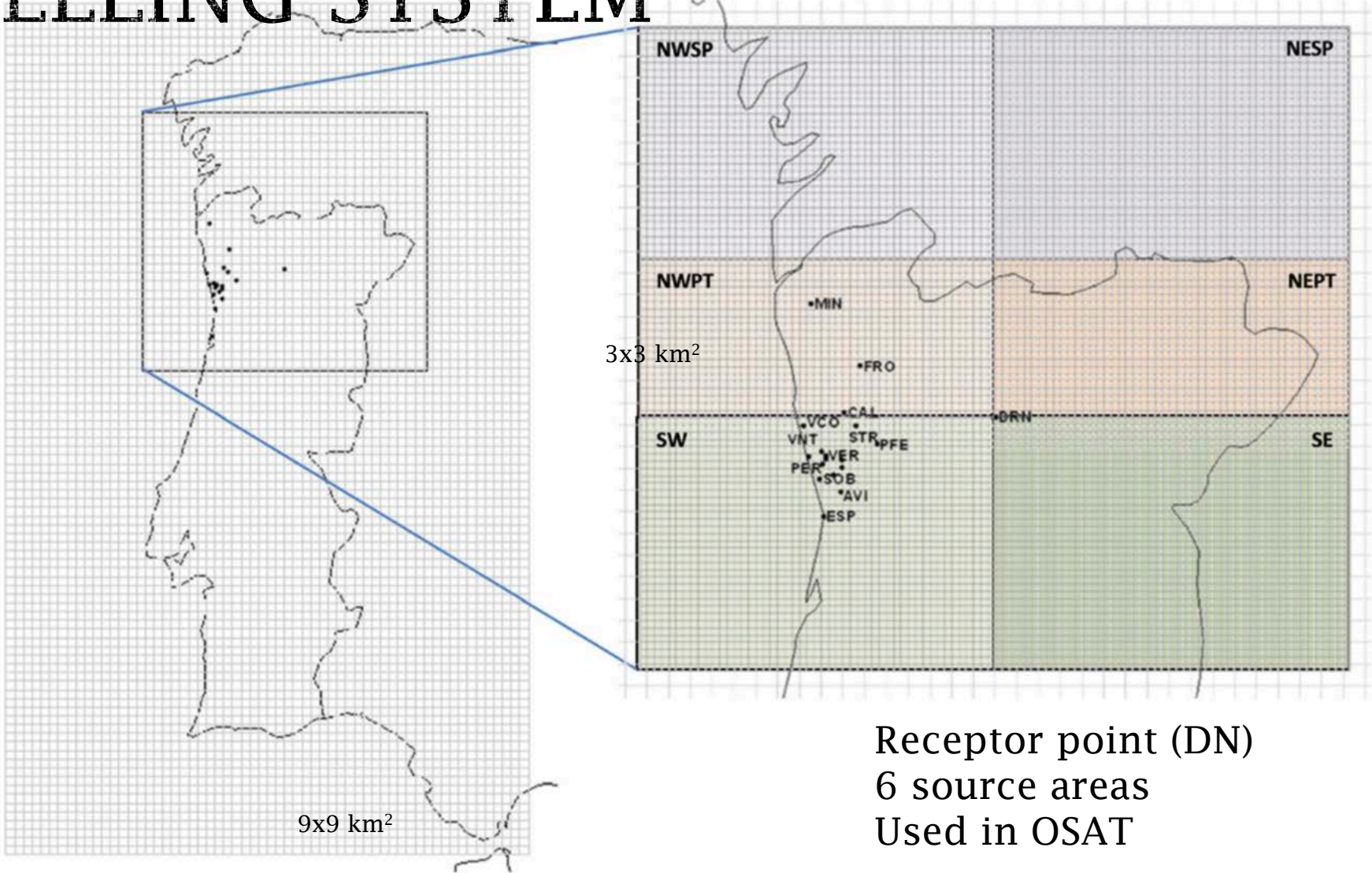
2014.12.15



THE AIR QUALITY MODELLING SYSTEM



THE AIR QUALITY MODELLING SYSTEM

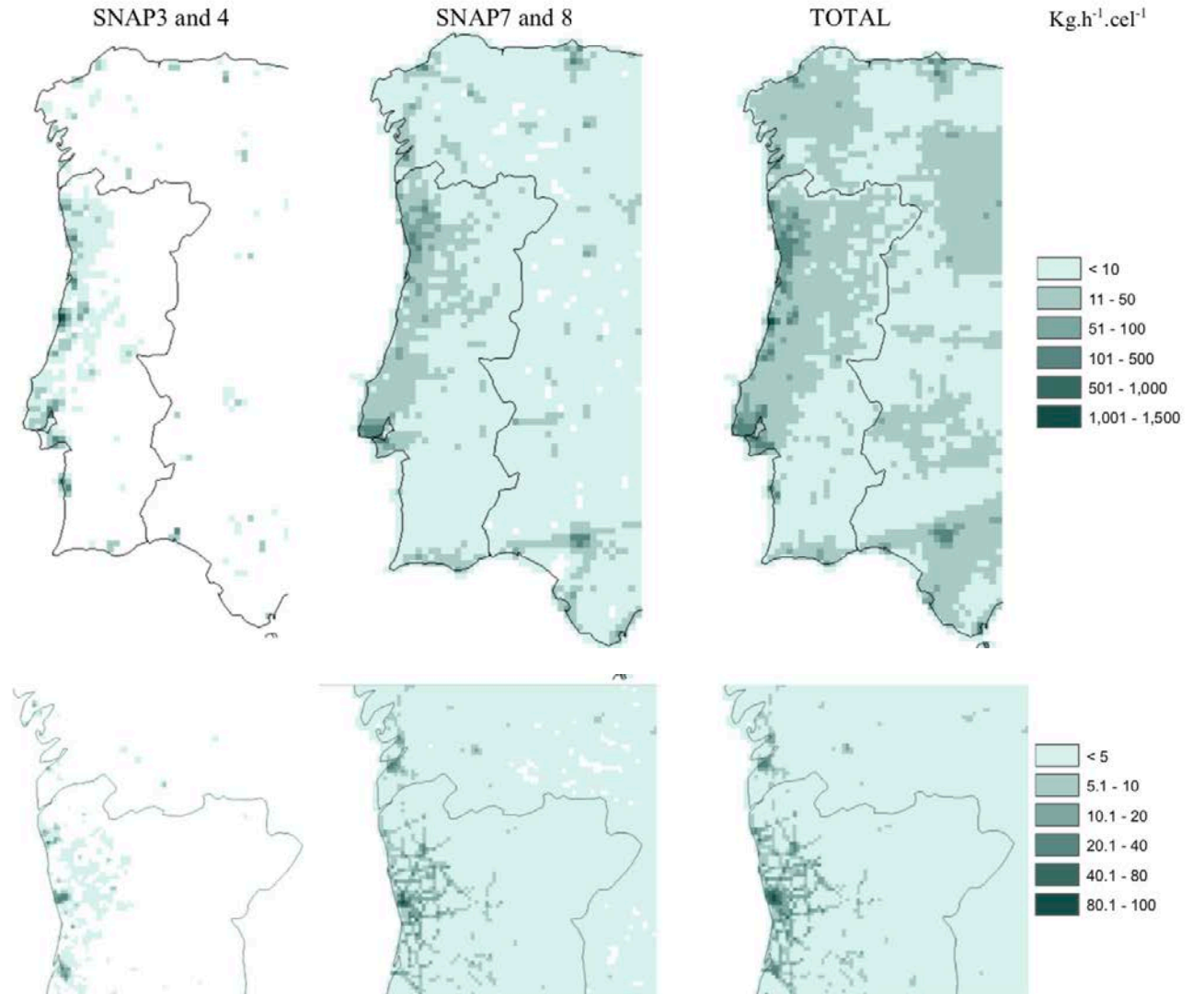


EMISSION INVENTORY

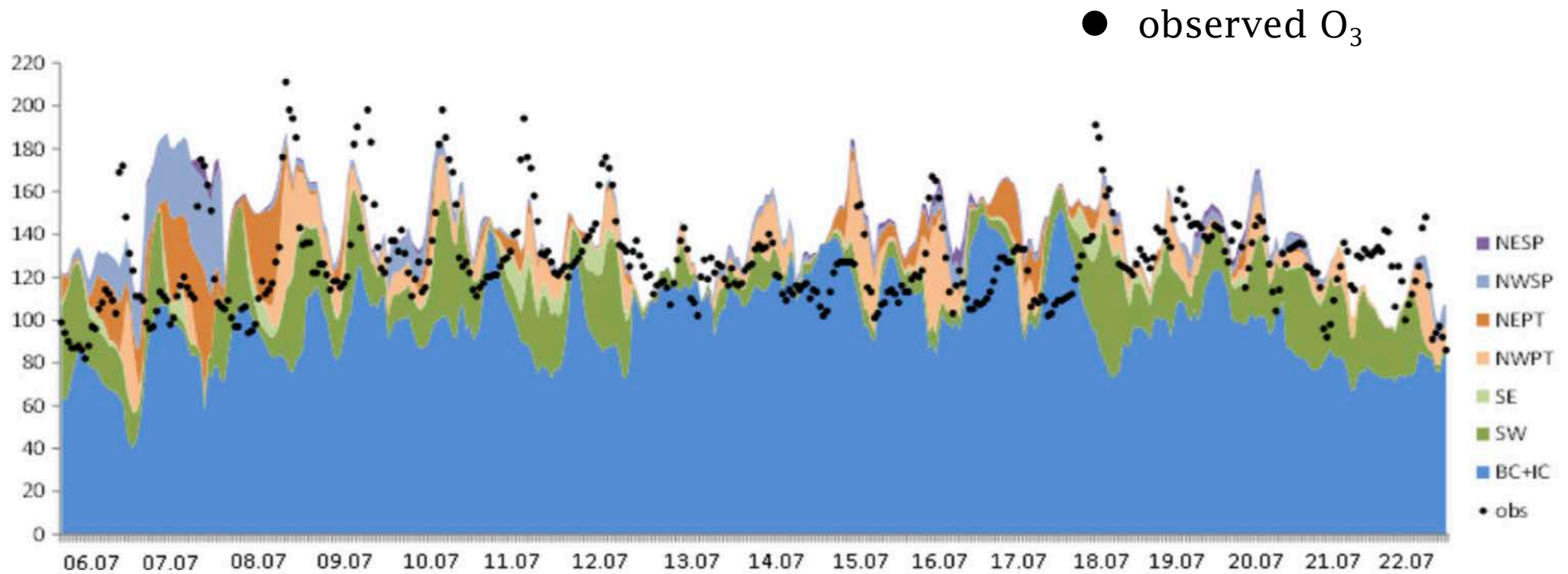
- NO_x

NO_x emissions:
for the transport and
industry activities and
the 2 simulated
domains

Source:
EMEP inventory
with top-down
approach



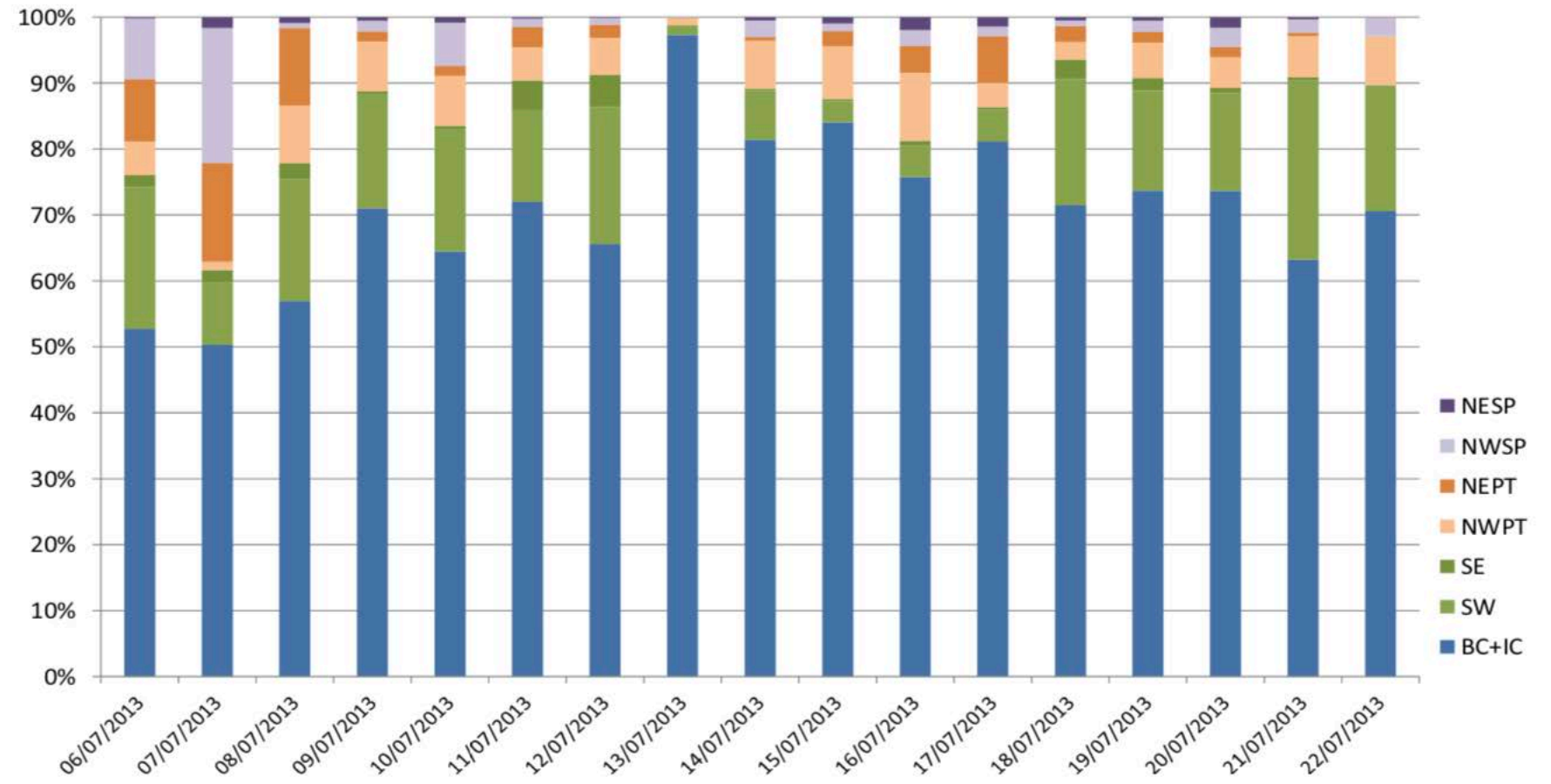
MODEL VALIDATION & contribution of each source area



July 2013 episode

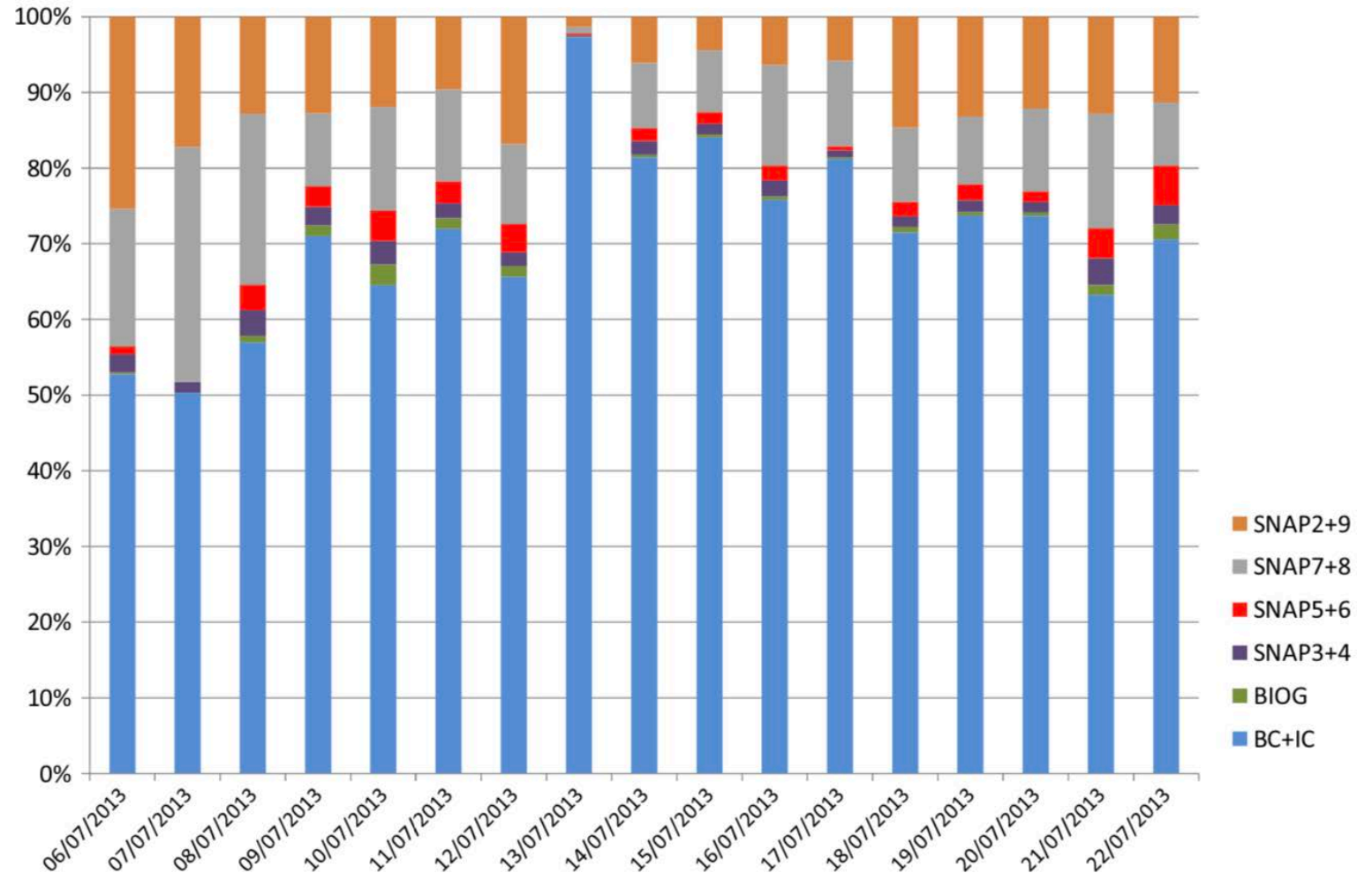
SOURCE APPORTIONMENT: % contribution of each source area

- ✓ BC+IC
- ✓ SE - SW
- ✓ NEPT-NWPT



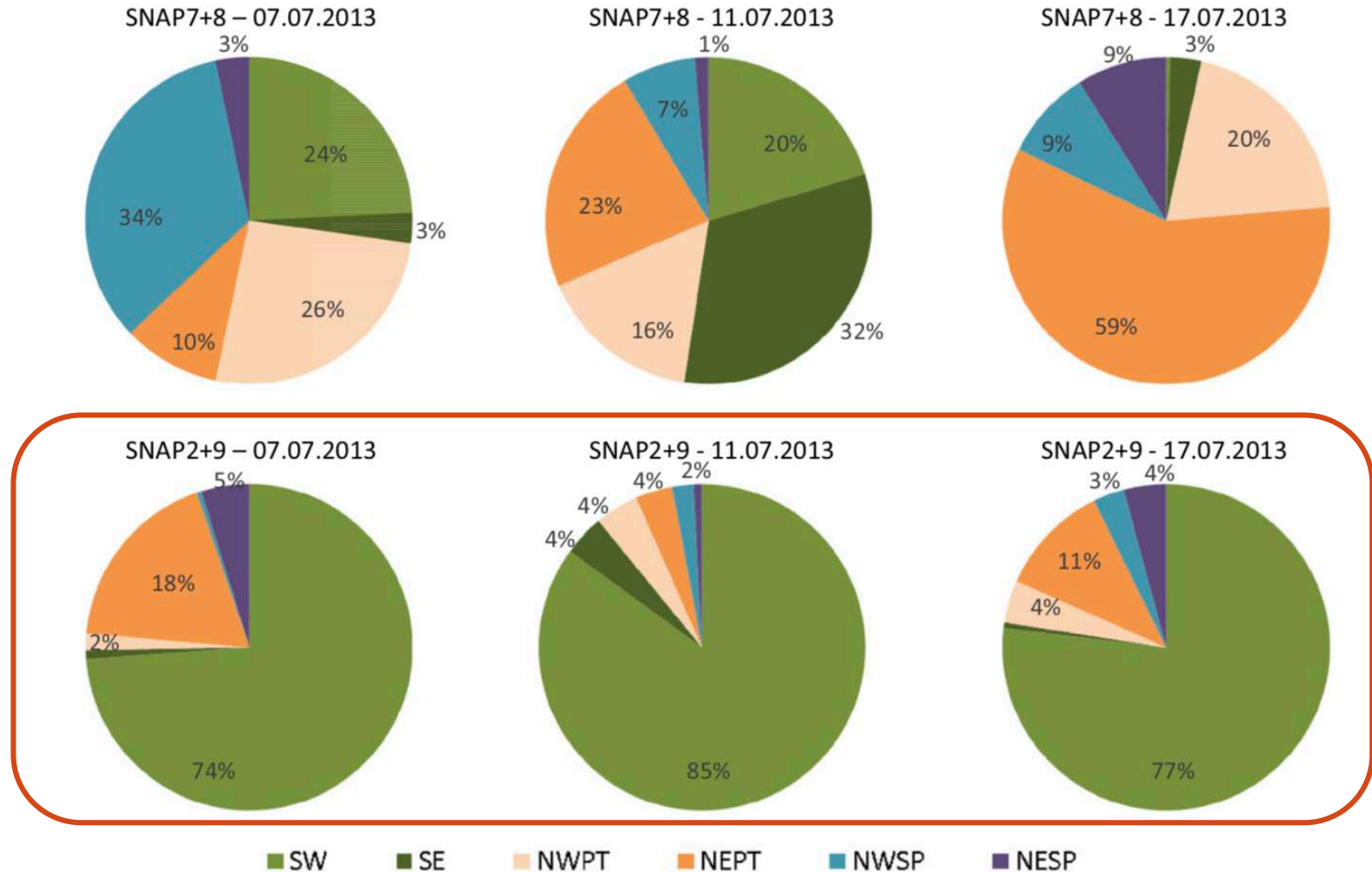
SOURCE APPORTIONMENT: % contribution of activity sectors

- ✓ BC+IC
- ✓ SNAP 2+9
- ✓ SNAP 7+8



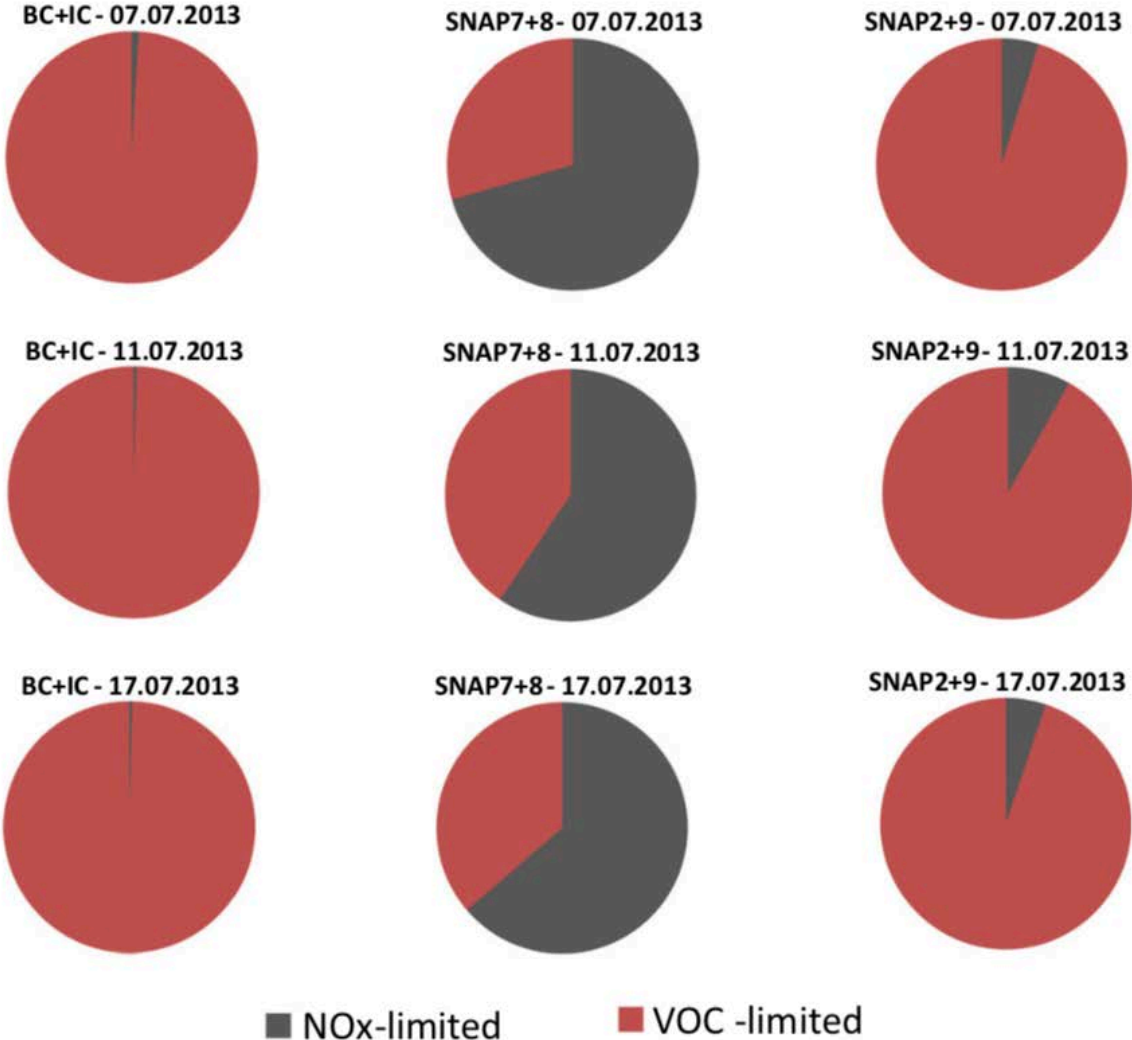
SOURCE APPORTIONMENT: % contribution of area sources

Relative contribution (%) of each area source associated to the main activity sectors (SNAP 7+8, SNAP2+9) during episode July 2013



ANALYSIS OF NO_x/VOC REGIMES

NO_x-limited/VOC-limited regimes during the episode

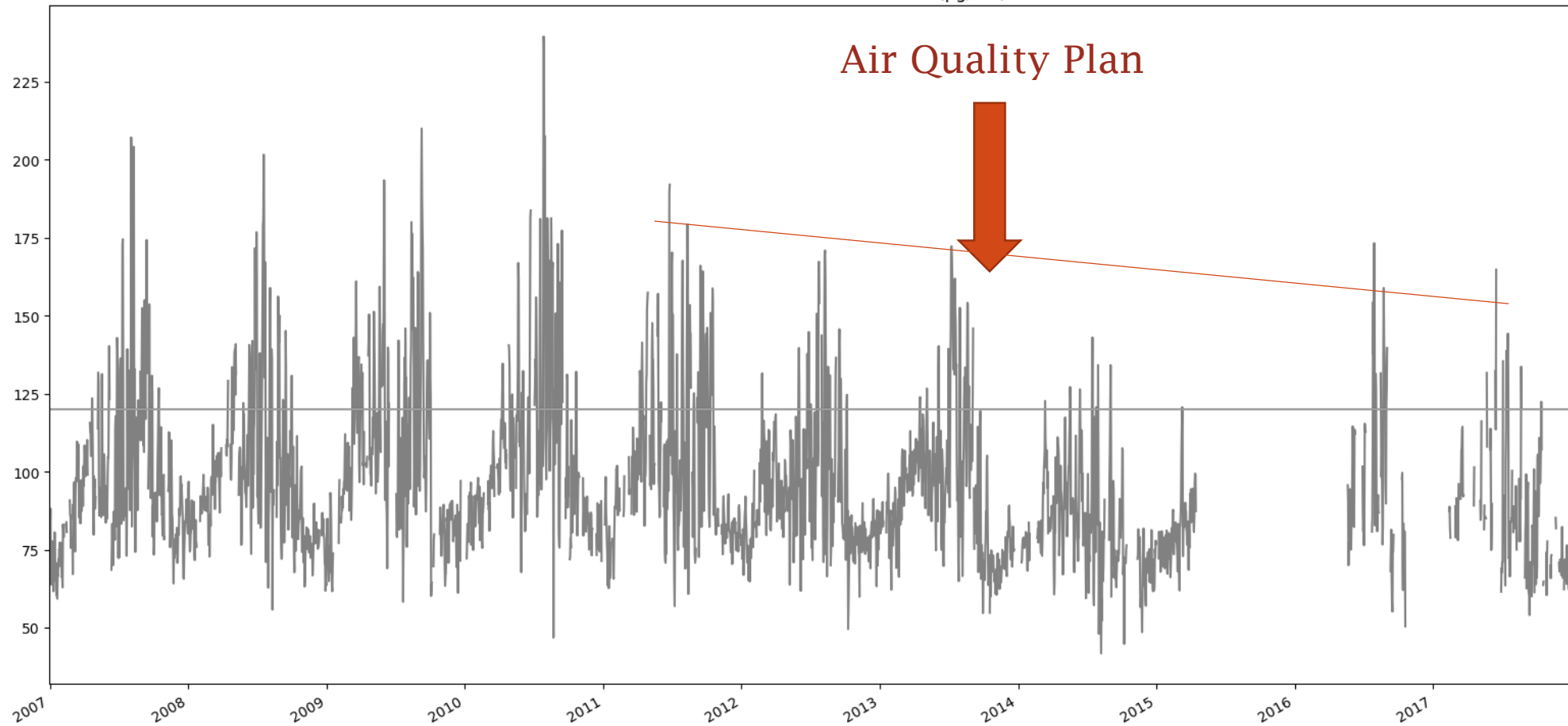


PROPOSED MEASURES FOR AIR QUALITY PLAN

Sector	Measure	Observations
Background conditions	Measures provided by the national/regional strategy (NEC; AQ strategy)	Dependent on regional/national entities
Transports	Improvement of the network and public transport fleet; Application of fees for specific routes and uses of private transport; “Low-emission zones” and prohibition of the circulation of motor vehicles on specific streets	
Residential	Municipal subsidies for renewable of open fireplaces Alert about the critical meteorological conditions for pollutants dispersion and advise to avoid open fireplaces	
Industry	Implementation of the best available techniques to prevent and control air pollutants emission	Priority industrial sectors: textile; papee; energy and smelting
Biogenic	Exceptional measures should be applied to sectors like solvents use when high biogenic emissions are expected (meteo conditions)	
Social awareness	Make people aware of the impact of ozone on human health Encourage movements of cycling, walking, car-sharing and use of public transports	

WHAT HAPPEN TO O₃ VALUES?

O₃ 8h daily maximum at Douro Norte station



Publicação: 18-08-2009 18:05

Ozono: Concentração acima do limiar de informação em Lamas D'Olo, Vila Real

Vila Real, 18 Ago (Lusa) - A serra do Alvão, em Vila Real, ultrapassou por quatro vezes, entre quinta-feira e hoje, os níveis normais de concentração de ozono no ar, disse fonte da Comissão de Coordenação e Desenvolvimento Regional do Norte (CCDR-N).



« Classifique este artigo

Partilhar:



Segundo os Serviços de Ambiente da CCDR-N, a estação de monitorização da de Lamas D'Olo, na serra do Alvão, registou hoje, entre as 16:00 e as 17:00, uma concentração de 212 microgramas por metro cúbico.

De acordo com a lei, quando a concentração de ozono ultrapassa os 180 microgramas por metro cúbico, as autoridades têm de efectuar um anúncio público das zonas afectadas.

COMENTÁRIOS: 1 COMENTÁRIOS

Comentado a: 18-08-2009 19:22

por: **Rui Santos**

de: Vila Real

Amigos é só para avisar Lamas d" Olo é a zona mais bonita de vila real ;ate a volta a portugal em bicicleta passou por lá só quem nao conhece a que pode falar assim,e quanto a concentração de ozono do ar do é tudo mentira.Quem nao tem nada para falar que vá a pesca ,que faz melhor...

DENUNCIAR COMENTÁRIO

