

AUTONOME PROVINZ BOZEN - SÜDTIROL

29. Landesagentur für Umwelt und Klimaschutz
29.8. Labor für Luftanalysen und Strahlenschutz



PROVINCIA AUTONOMA DI BOLZANO - ALTO ADIGE

29. Agenzia provinciale per l'ambiente e la tutela del clima
29.8. Laboratorio Analisi aria e radioprotezione

Luftqualität Qualità dell'aria 2023

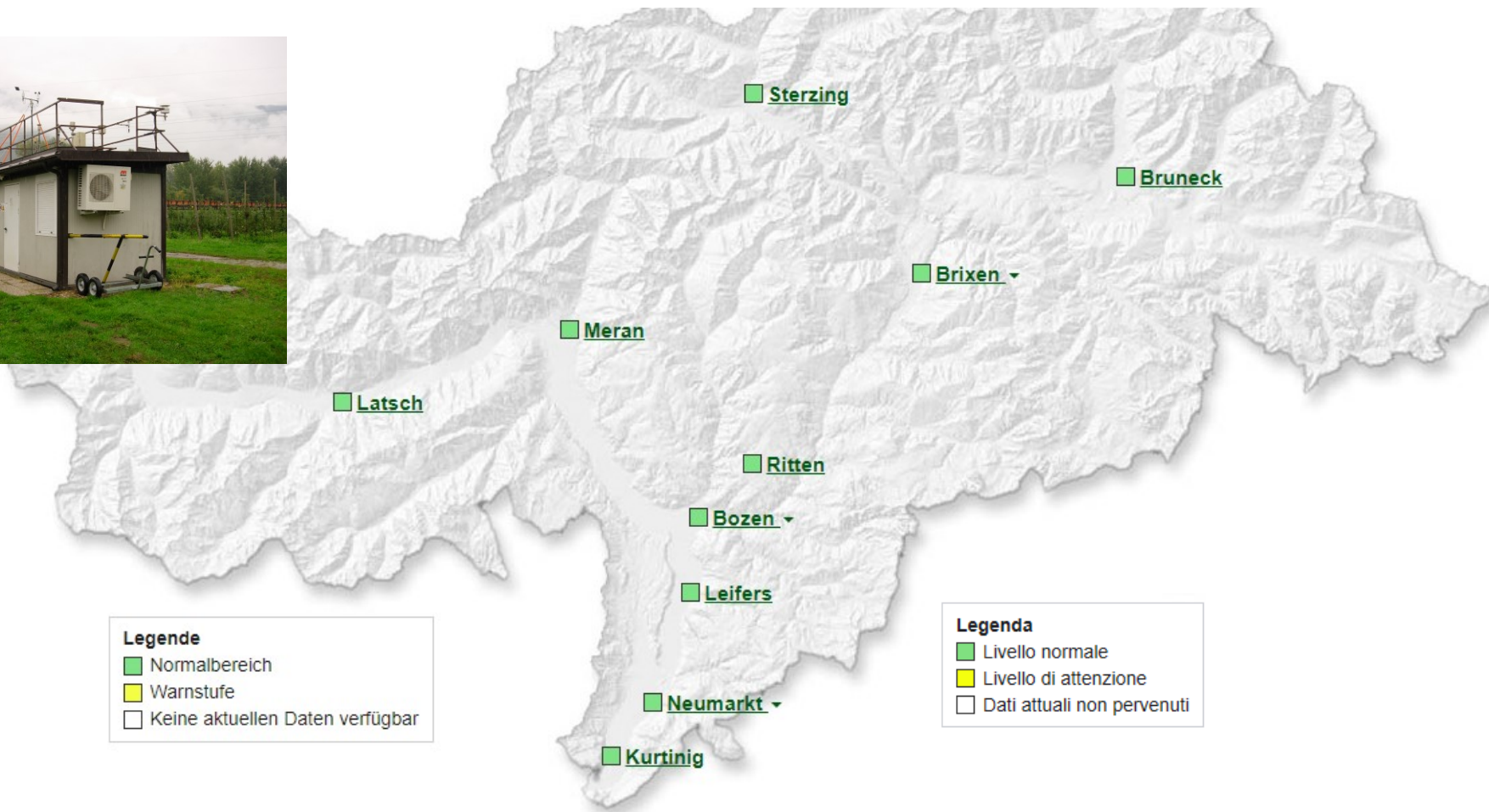
Luca Verdi
Laboratorio analisi aria e radioprotezione

22.03.2024

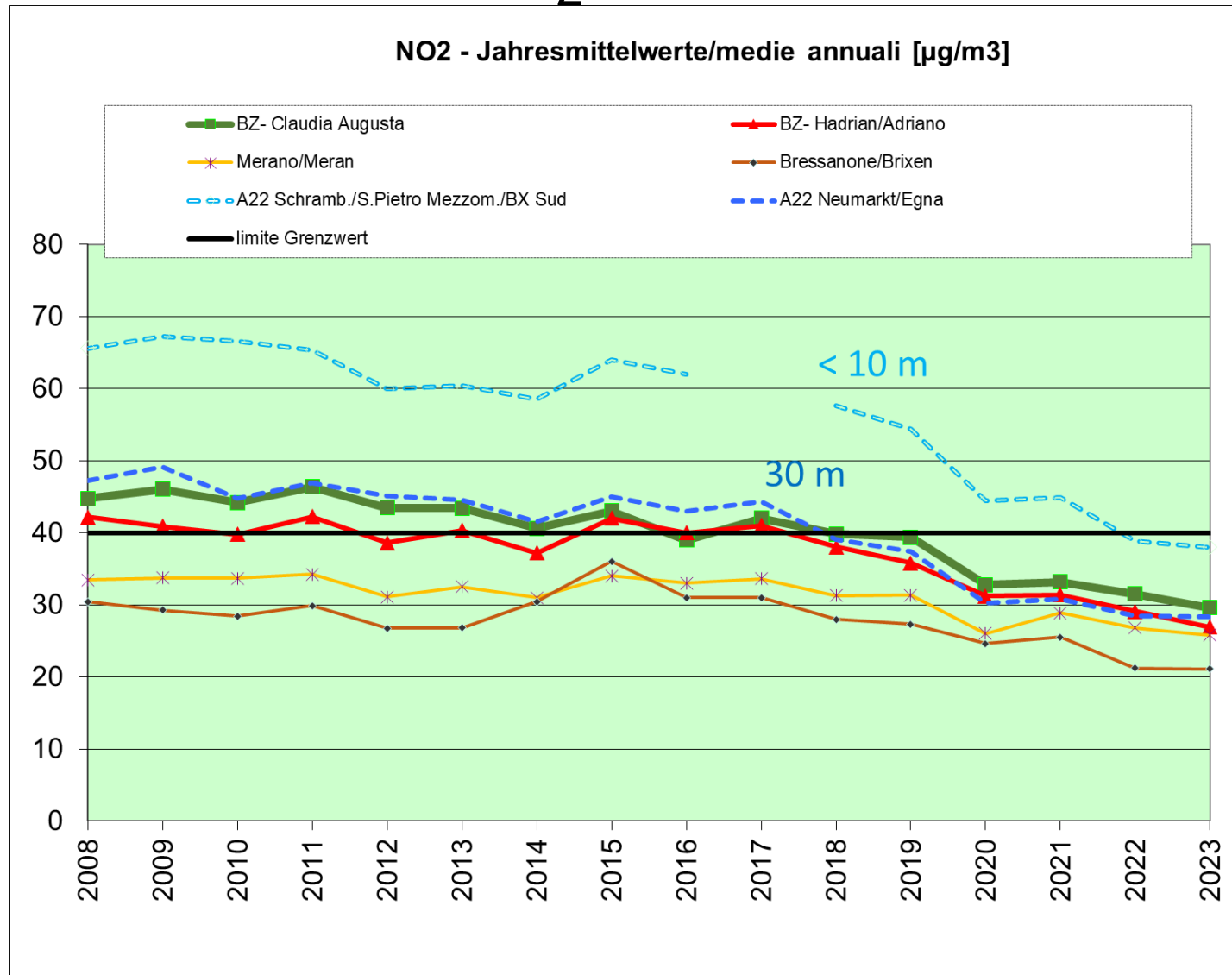


<https://ambiente.provincia.bz.it/aria/misurazione-attuale-aria.asp>

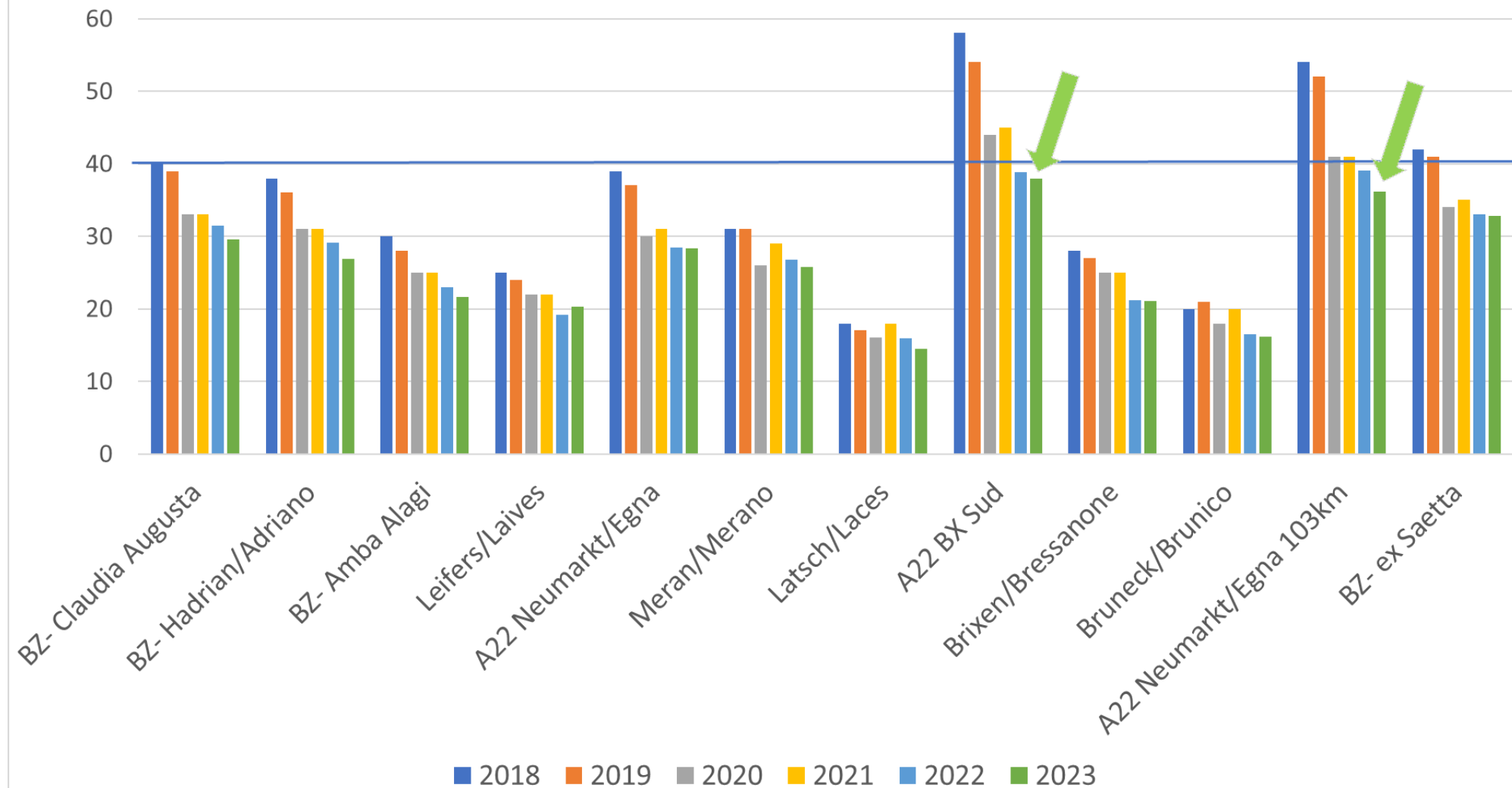
<https://umwelt.provinz.bz.it/luft/aktuelle-luftmessdaten.asp>



Stickstoffdioxid - NO₂ - Biossido di azoto



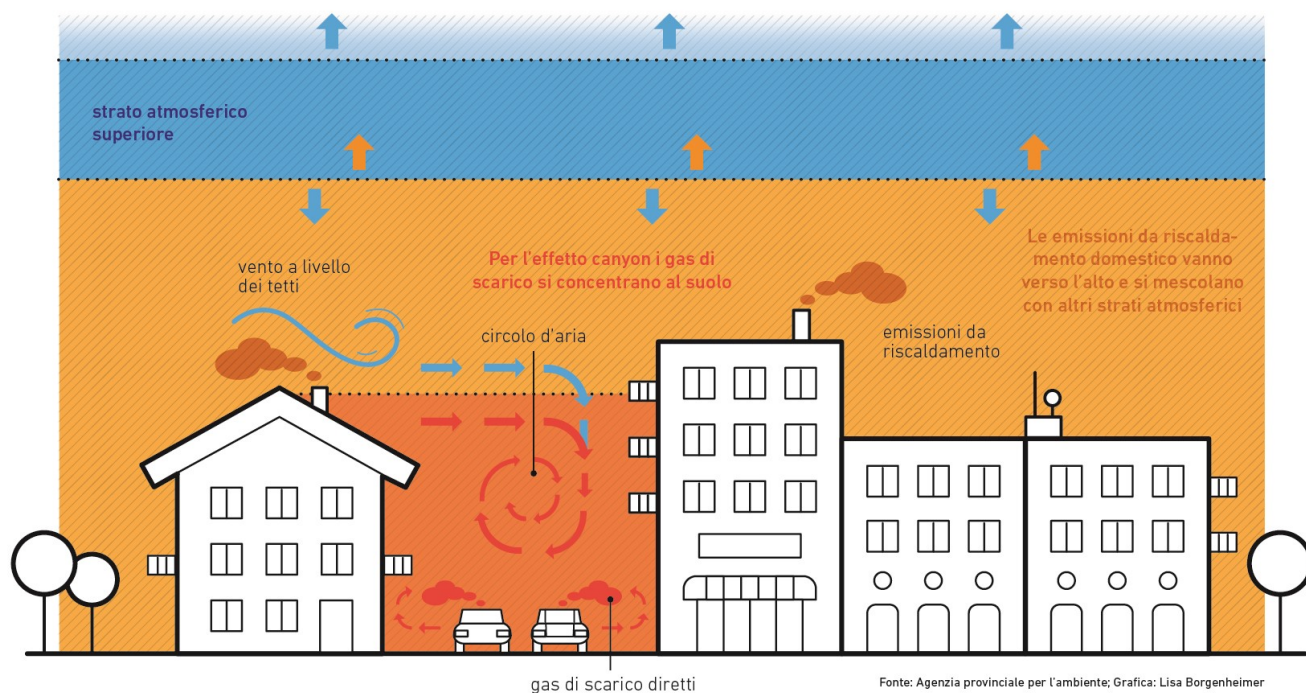
medie annuali/Jahresmittelwerte NO2 2018-2023

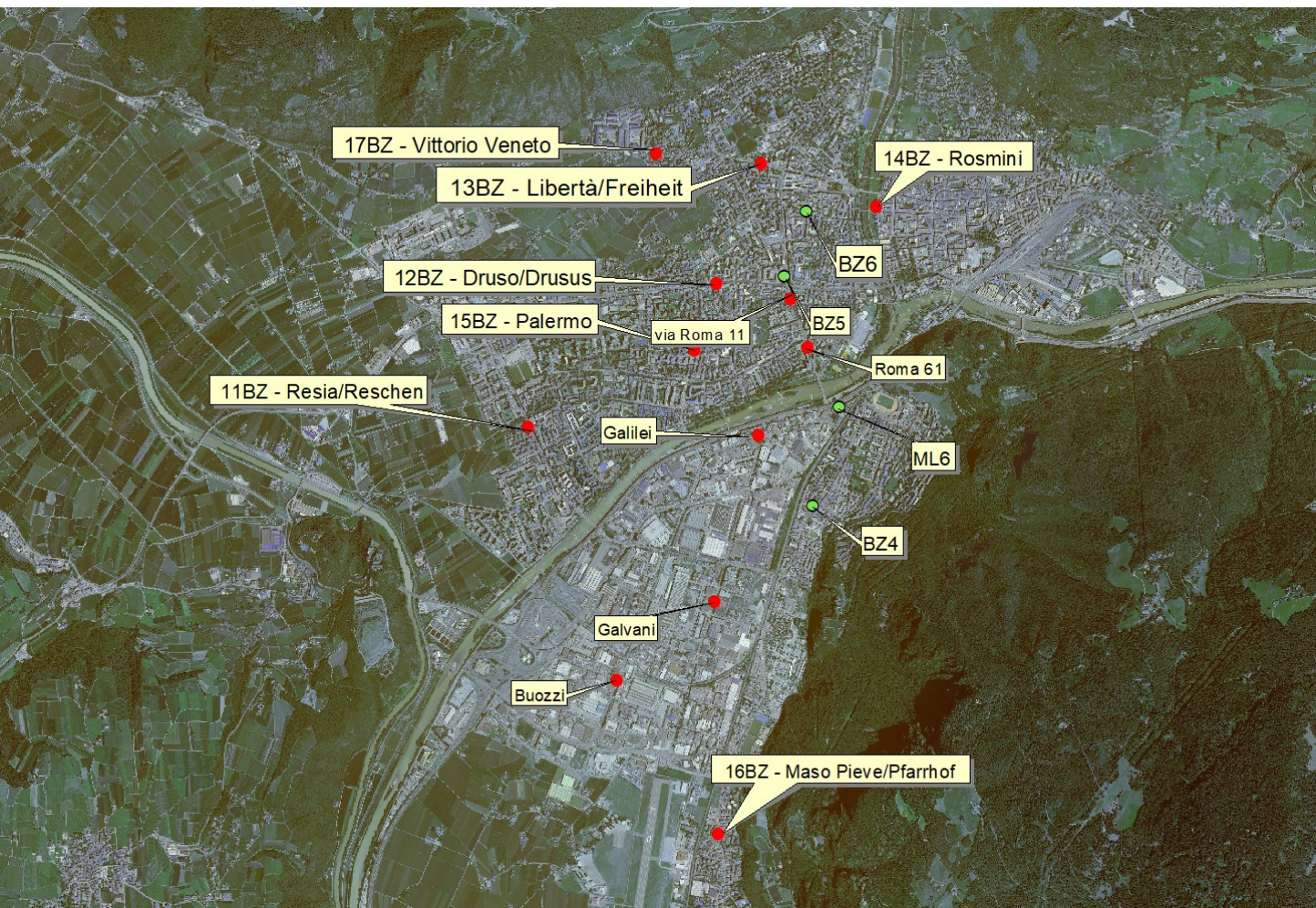


Effetto canyon – Canyon Effekt

Effetto canyon

Viene definito "effetto canyon" la concentrazione di gas di scarico e polveri sottili che si concentrano sulla strada fra le fila di edifici. Per le concentrazioni di biossido di azoto NO₂ è responsabile il traffico motorizzato, che vi contribuisce fino al 70 %.



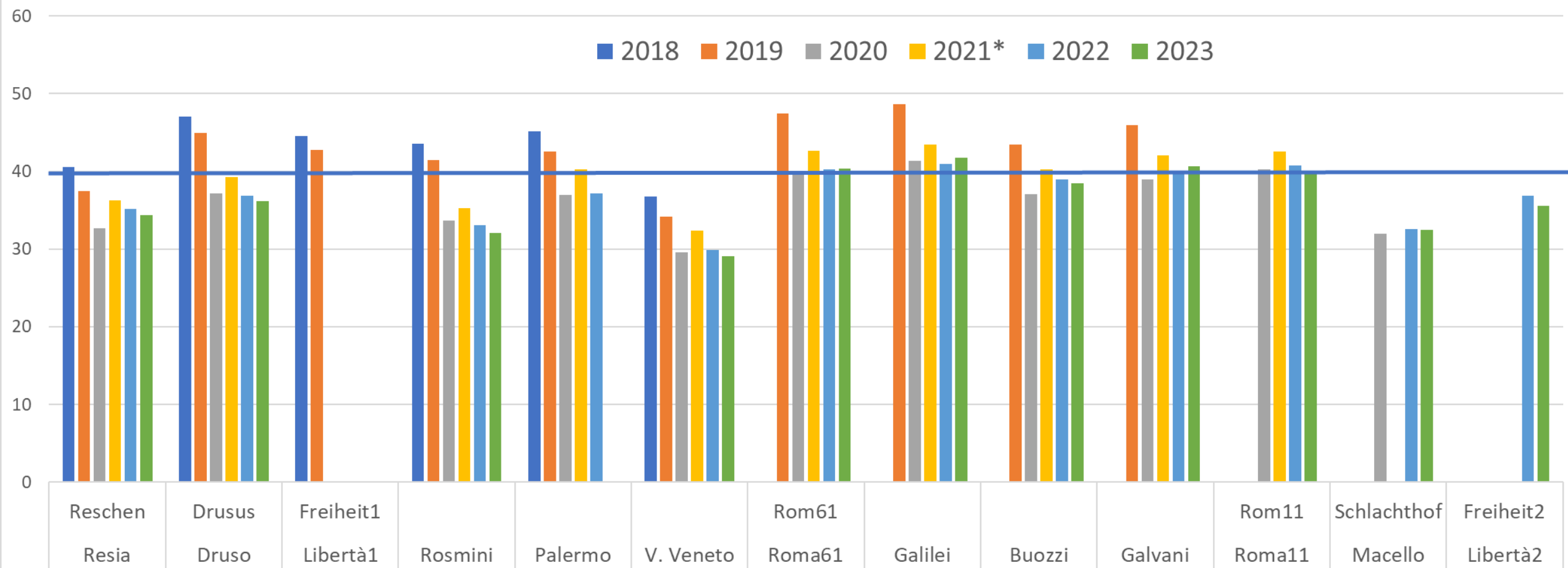


Bolzano/Bozen

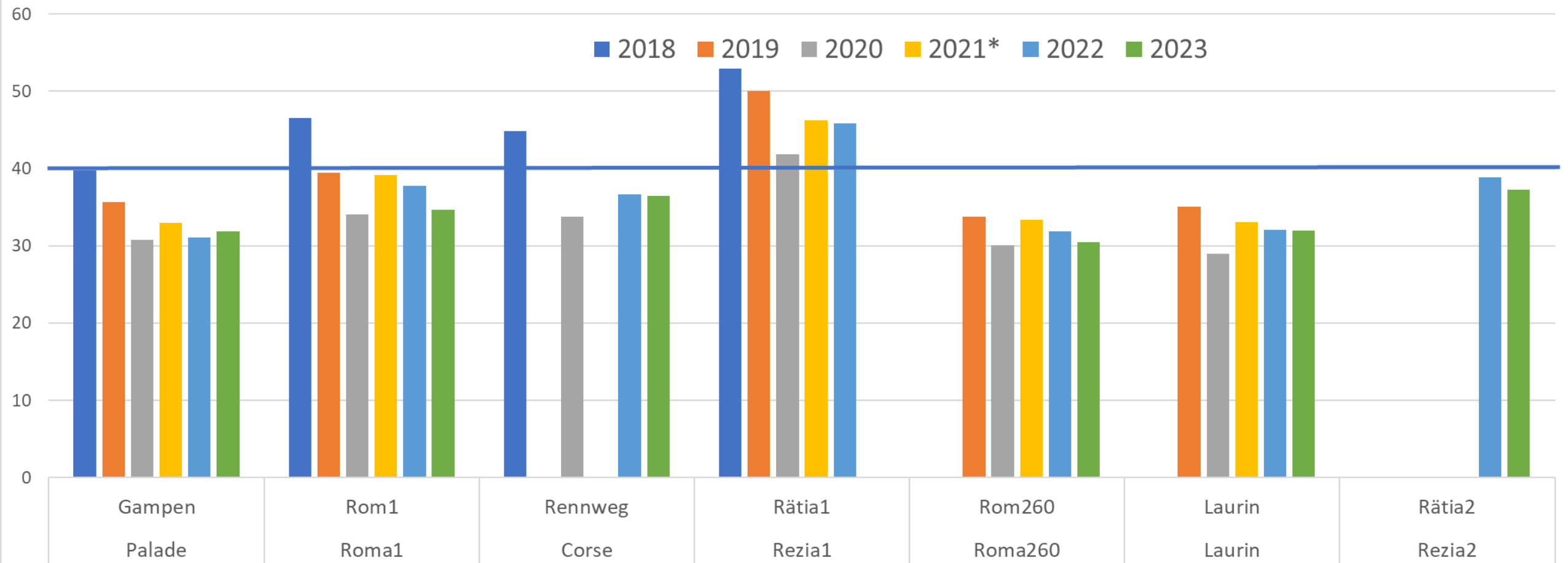
- Ortsfeste Messstationen – stazioni fisse
- Passivsammler – campionatori passivi
- Hotspot



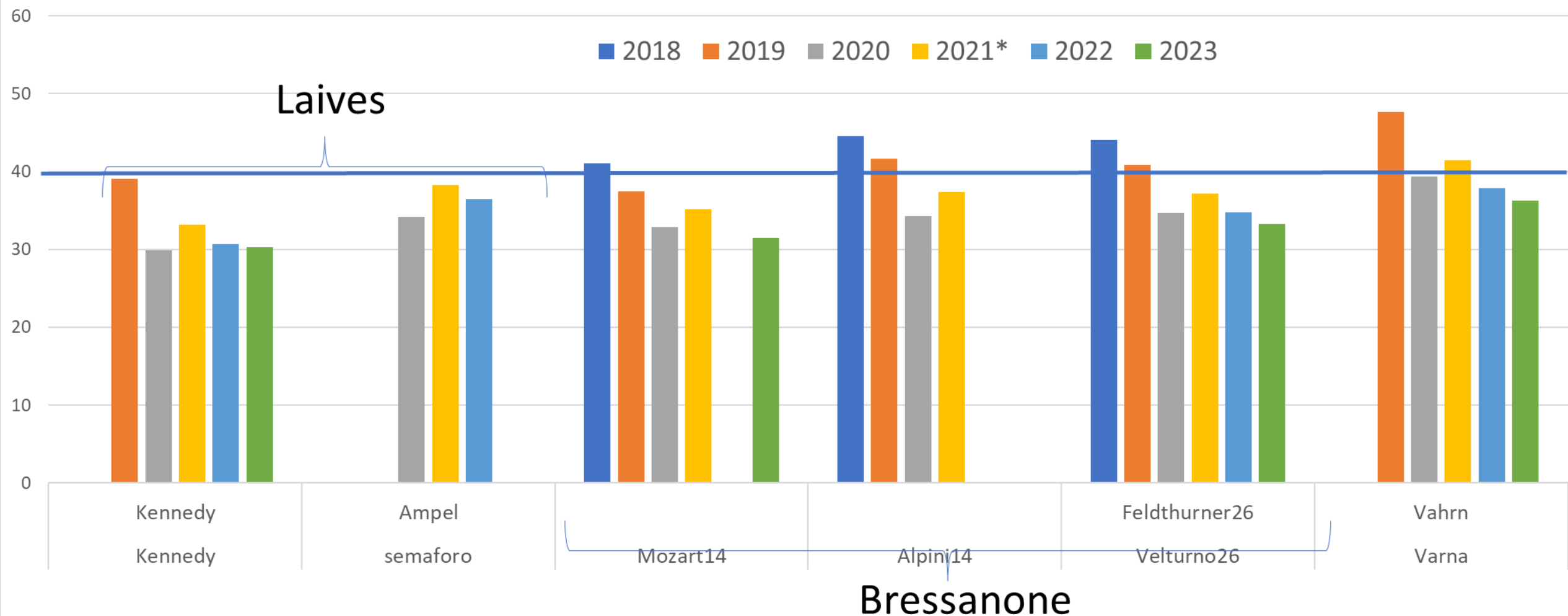
Bolzano/Bozen - NO2 in $\mu\text{g}/\text{m}^3$ media annuale/Jahresmittelwert 2018-2023



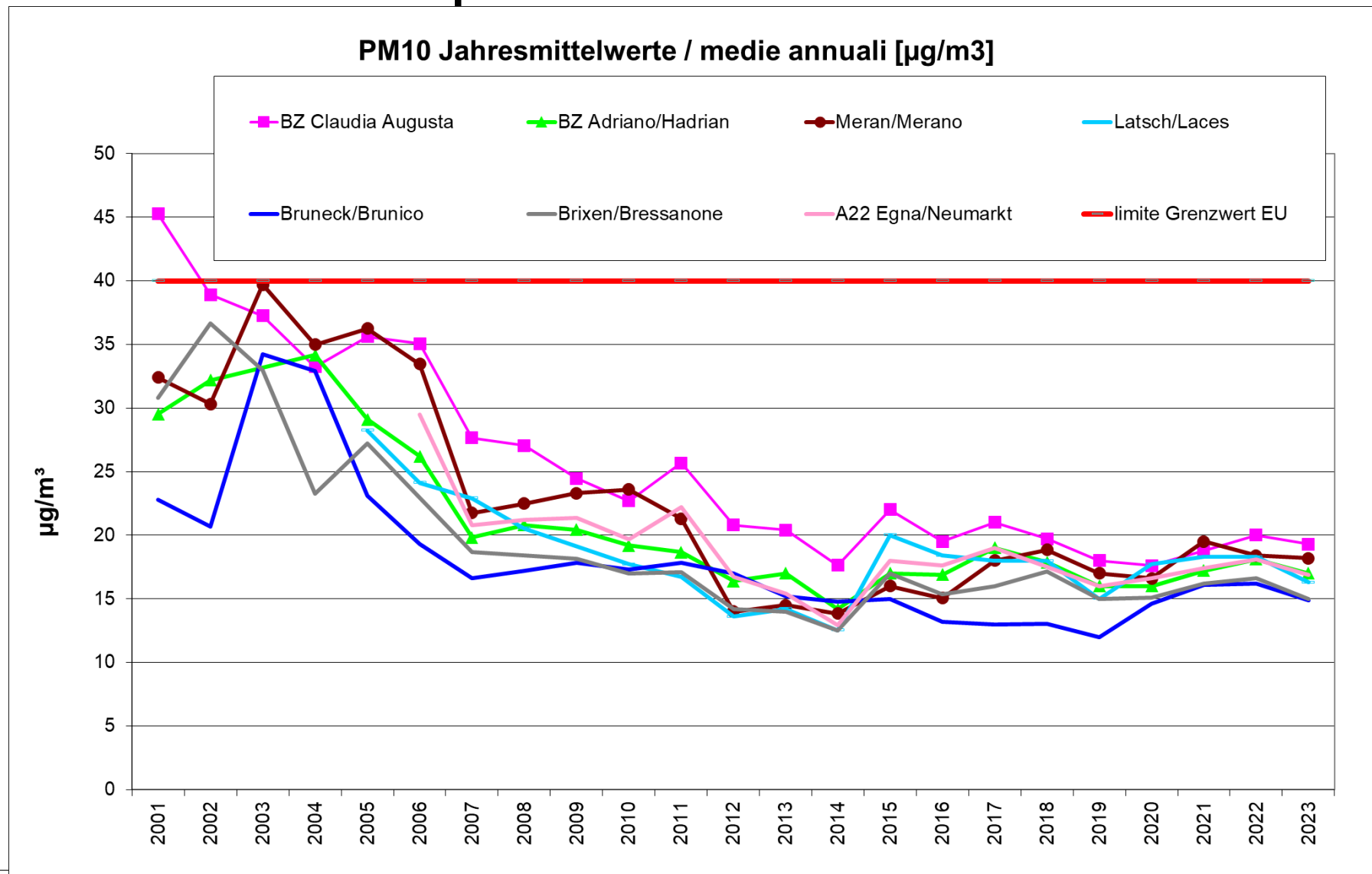
Merano/Meran - NO2 in $\mu\text{g}/\text{m}^3$ media annuale/Jahresmittelwert 2018-2023



Laives/Leifers+Brixen/Bressanone - NO2 in $\mu\text{g}/\text{m}^3$ media annuale/Jahresmittelwert 2018-2023

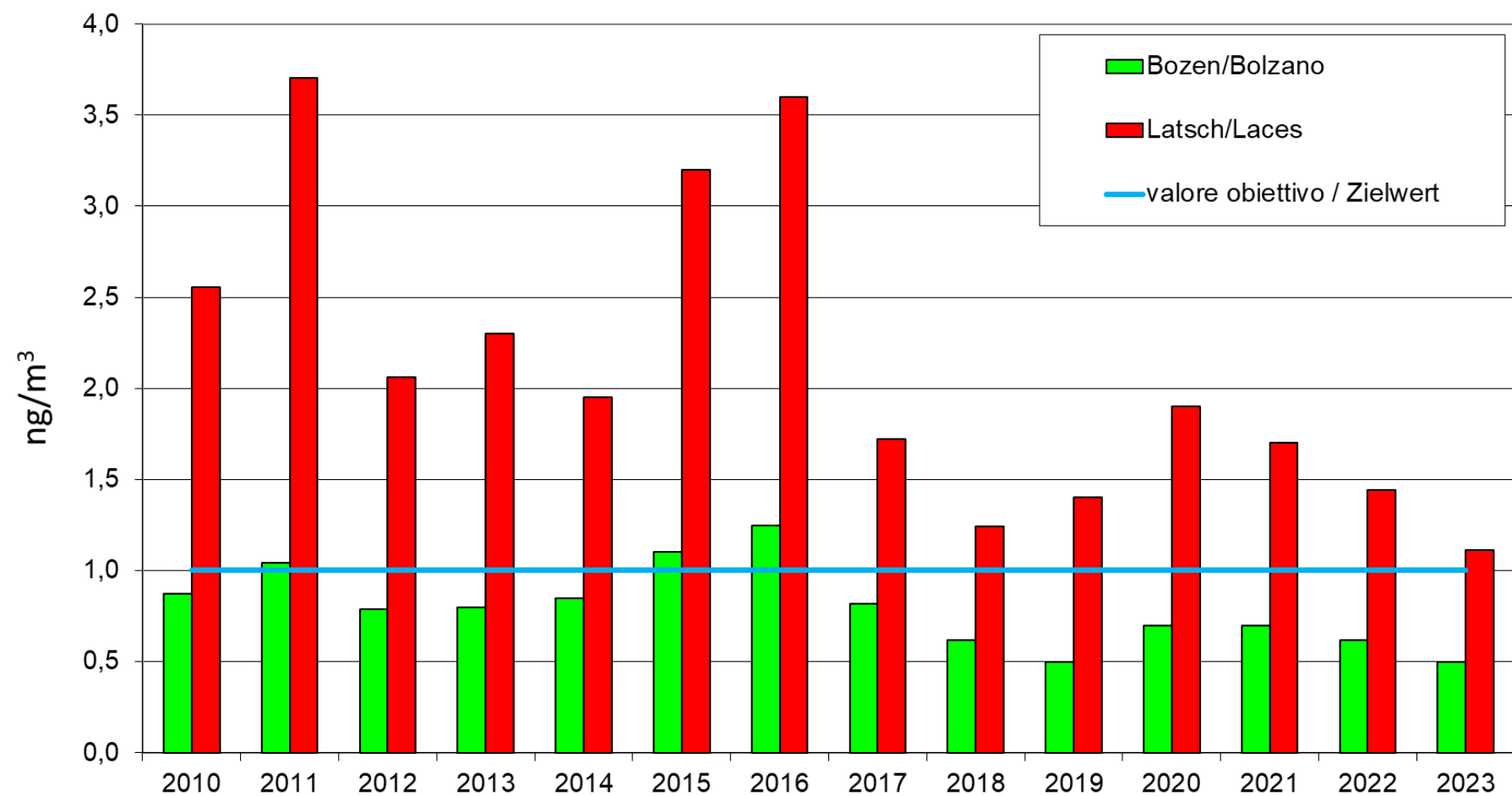


PM10 polveri sottili - Feinstaub



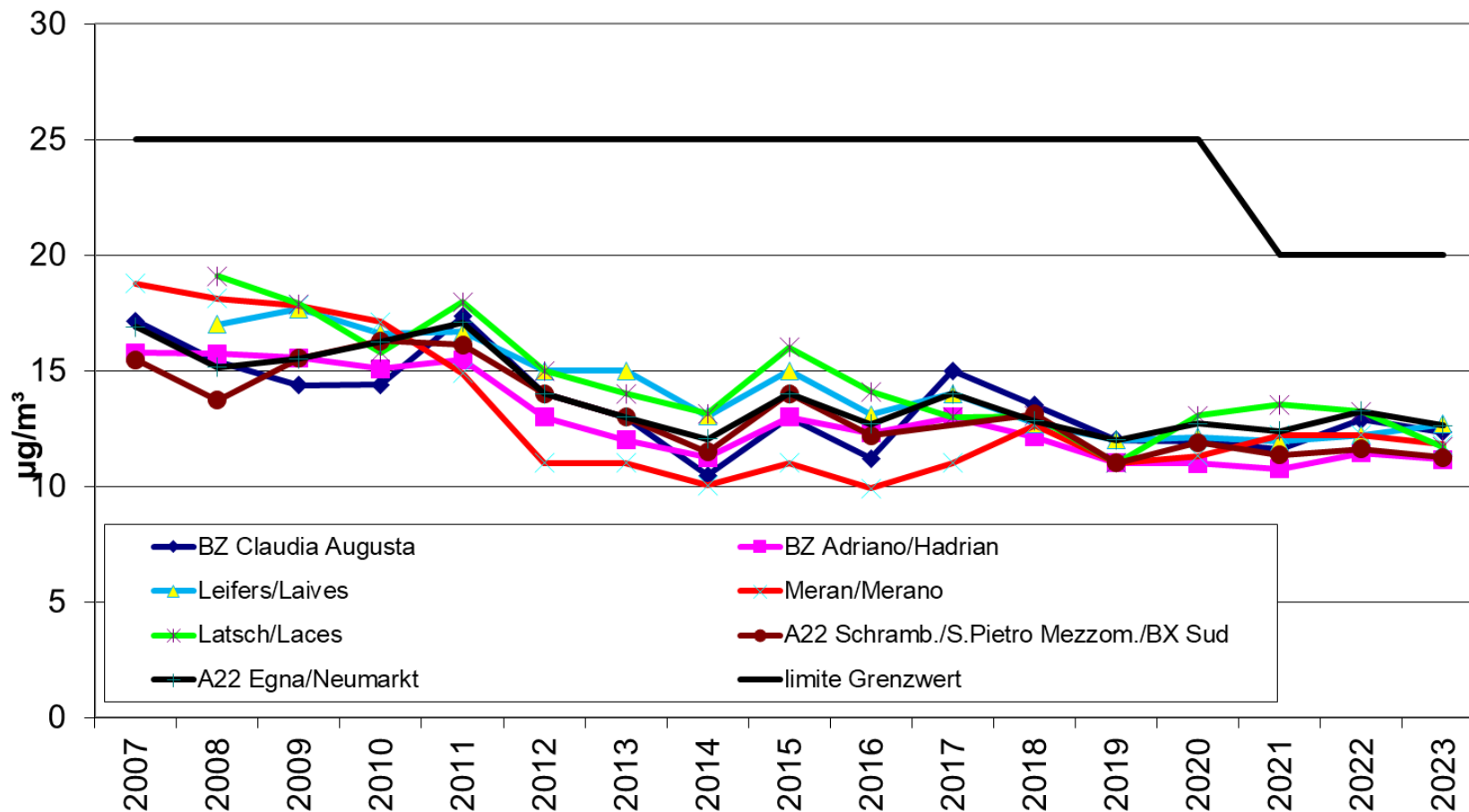
Benzo[a]pyren / Benzo[a]pirene

B(a)P Jahresmittelwert - media annuale



PM2.5 polveri sottili - Feinstaub

PM2.5 Jahresmittelwerte / medie annuali [$\mu\text{g}/\text{m}^3$]



What the AQGs provide...

Summary of recommended AQG levels and interim targets

Pollutant	Averaging time	IT1	IT2	IT3	IT4	AQG level
PM _{2.5} , µg/m ³	Annual	35	25	15	10	5
PM _{2.5} , µg/m ³	24-hour ^a	75	50	37.5	25	15
PM ₁₀ , µg/m ³	Annual	70	50	30	20	15
PM ₁₀ , µg/m ³	24-hour ^a	150	100	75	50	45
O ₃ , µg/m ³	Peak season ^b	100	70	–	–	60
O ₃ , µg/m ³	8-hour ^a	160	120	–	–	100
NO ₂ , µg/m ³	Annual	40	30	20	–	10
NO ₂ , µg/m ³	24-hour ^a	120	50	–	–	25
SO ₂ , µg/m ³	24-hour ^a	125	50	–	–	40
CO, mg/m ³	24-hour ^a	7	–	–	–	4

WHO global air quality guidelines

Particulate matter (PM_{2.5} and PM₁₀), ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide

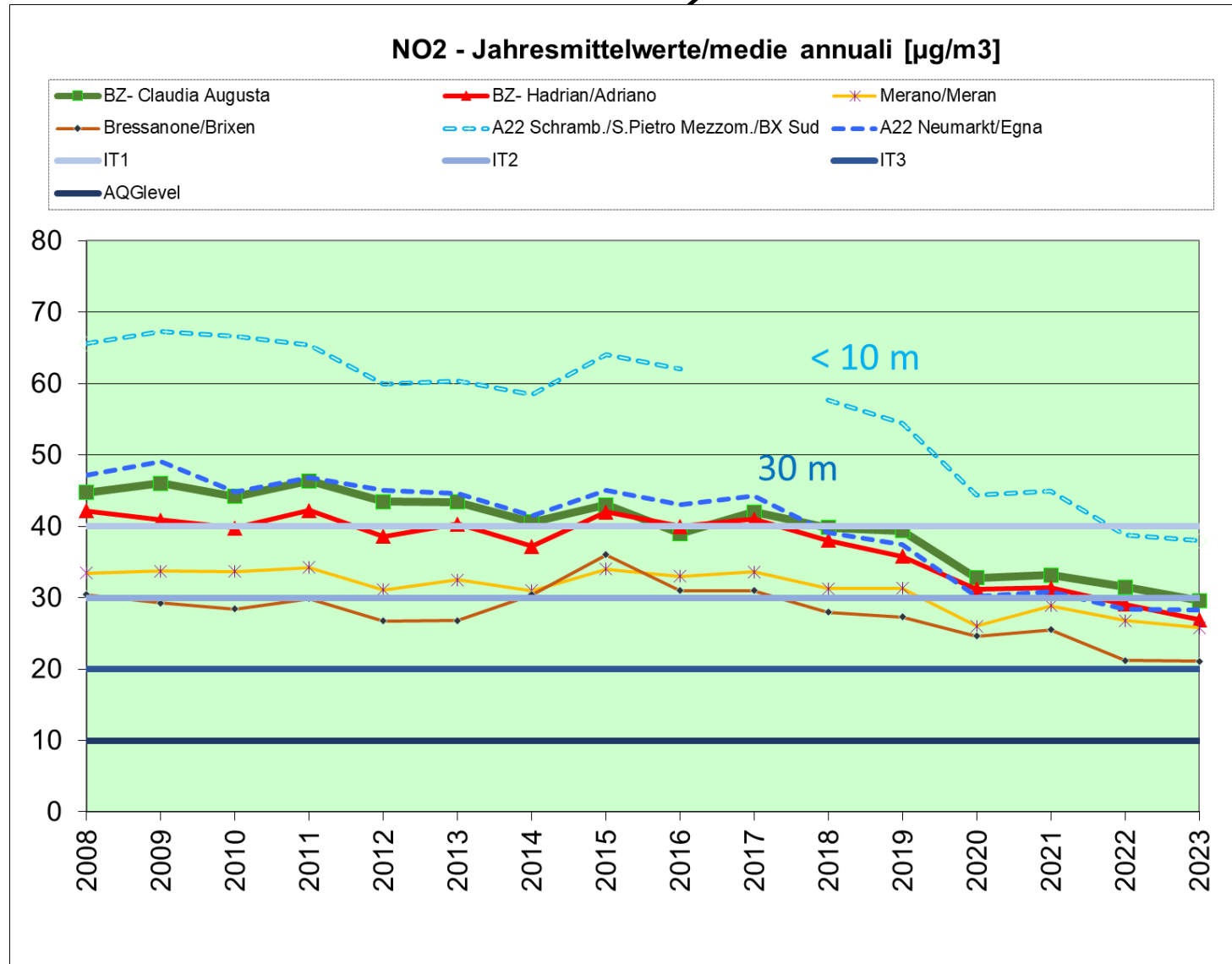


Air quality guideline levels for both long- and short-term exposure in relation to critical health outcomes.

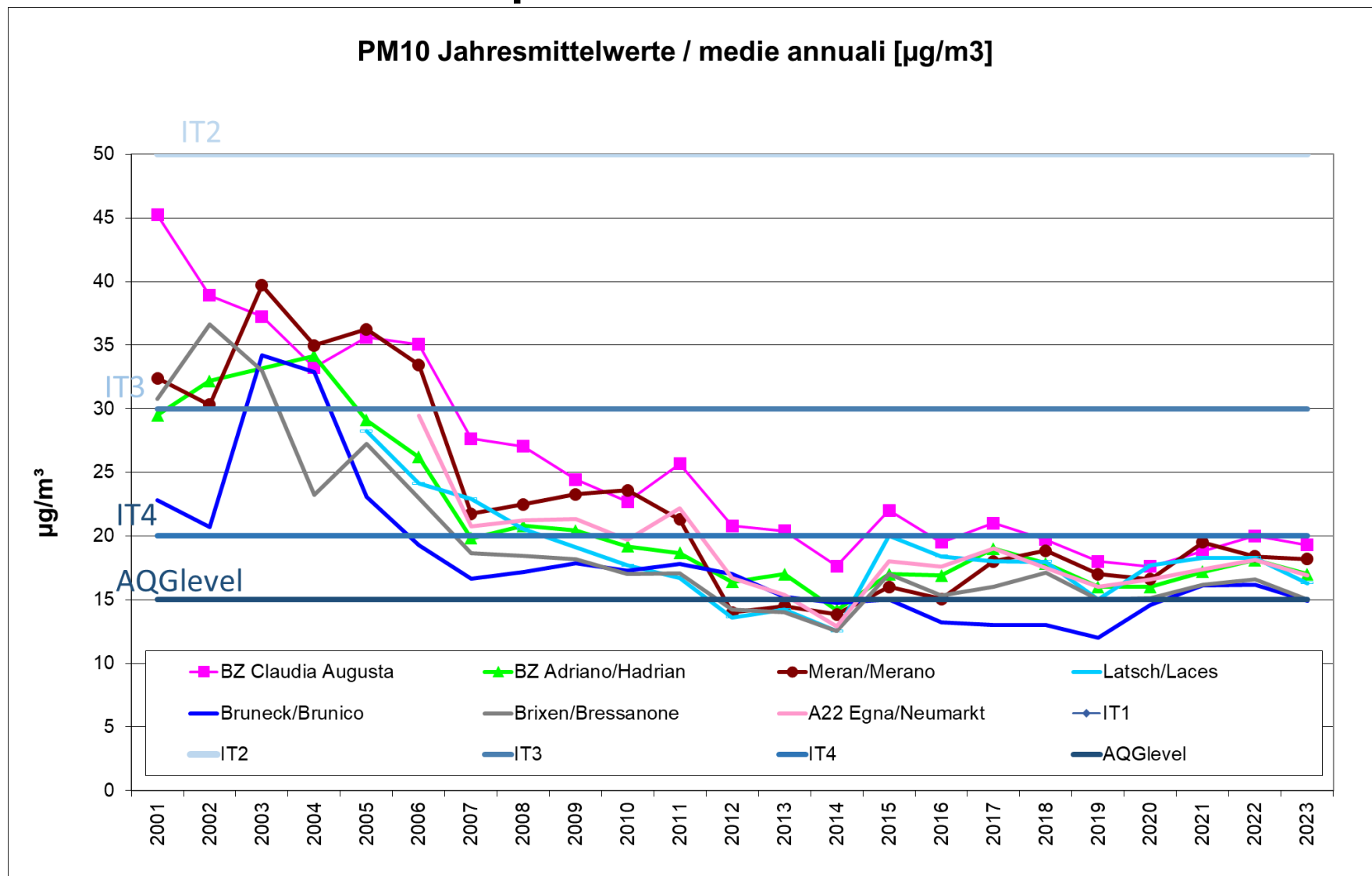
Interim targets to guide reduction efforts for the achievement of the air quality guideline levels.

Good practice statements in the management of certain types of particulate matter for which evidence is insufficient to derive quantitative air quality guideline levels, but points to their health relevance.

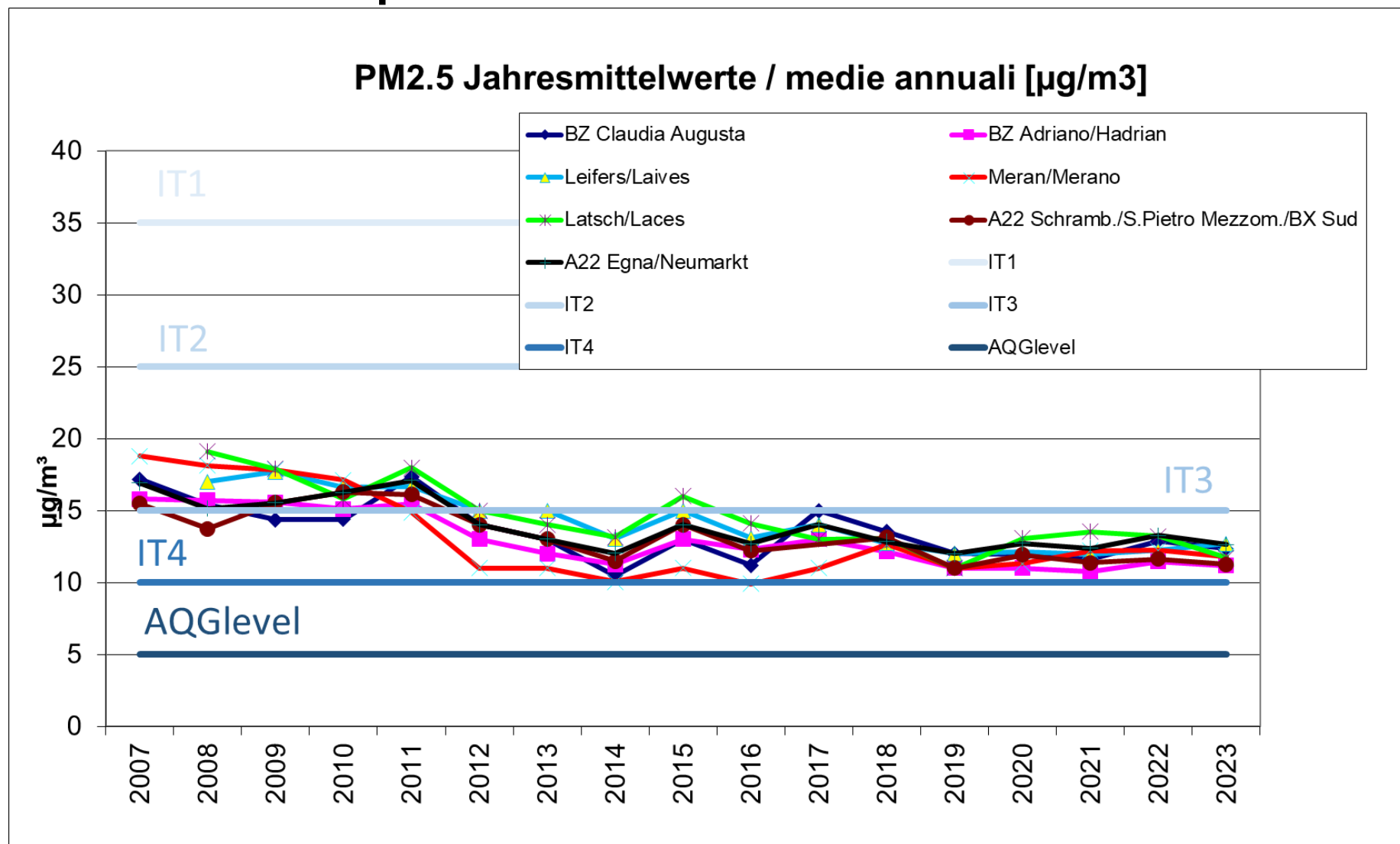
Stickstoffdioxid - NO₂ - Biossido di azoto



PM10 polveri sottili - Feinstaub



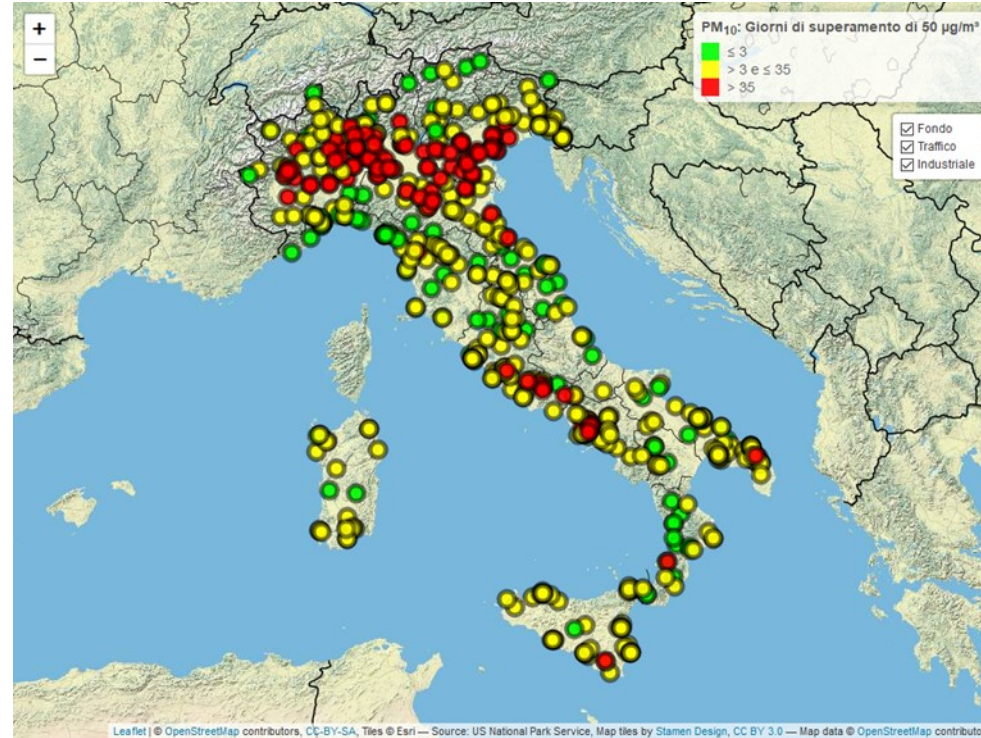
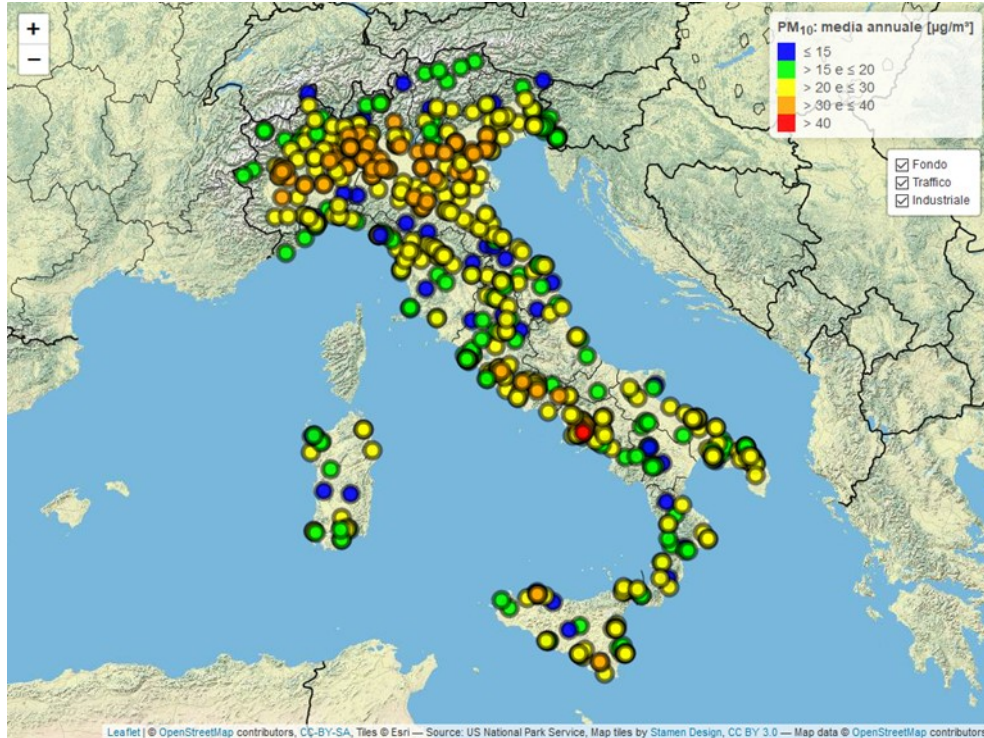
PM2.5 polveri sottili - Feinstaub



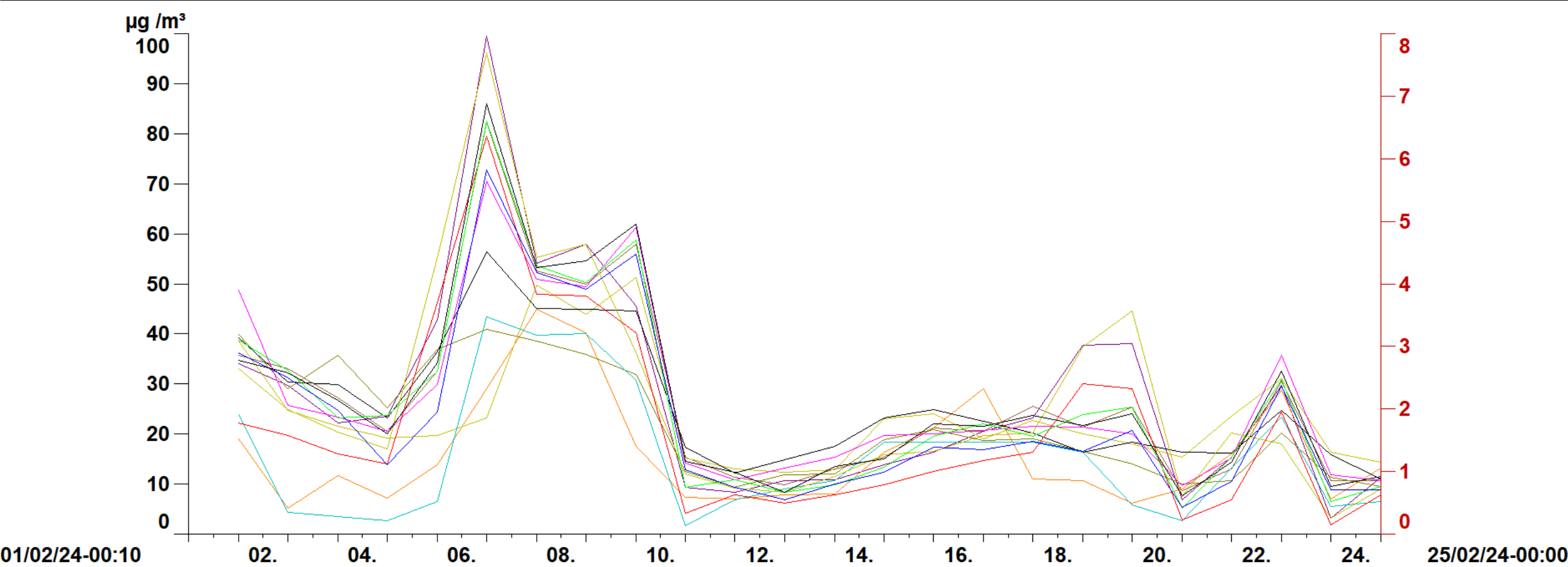
Cosa succede in pianura Padana

Was passiert in der Po-Ebene

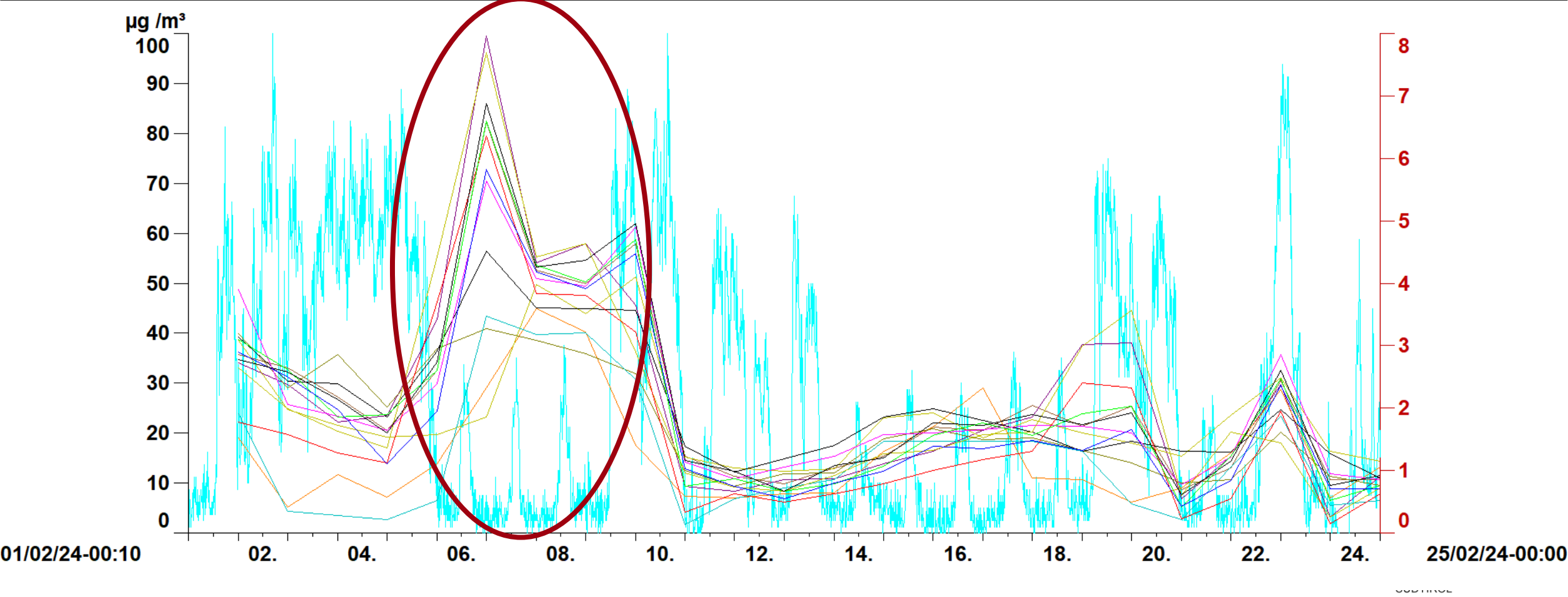
PM10



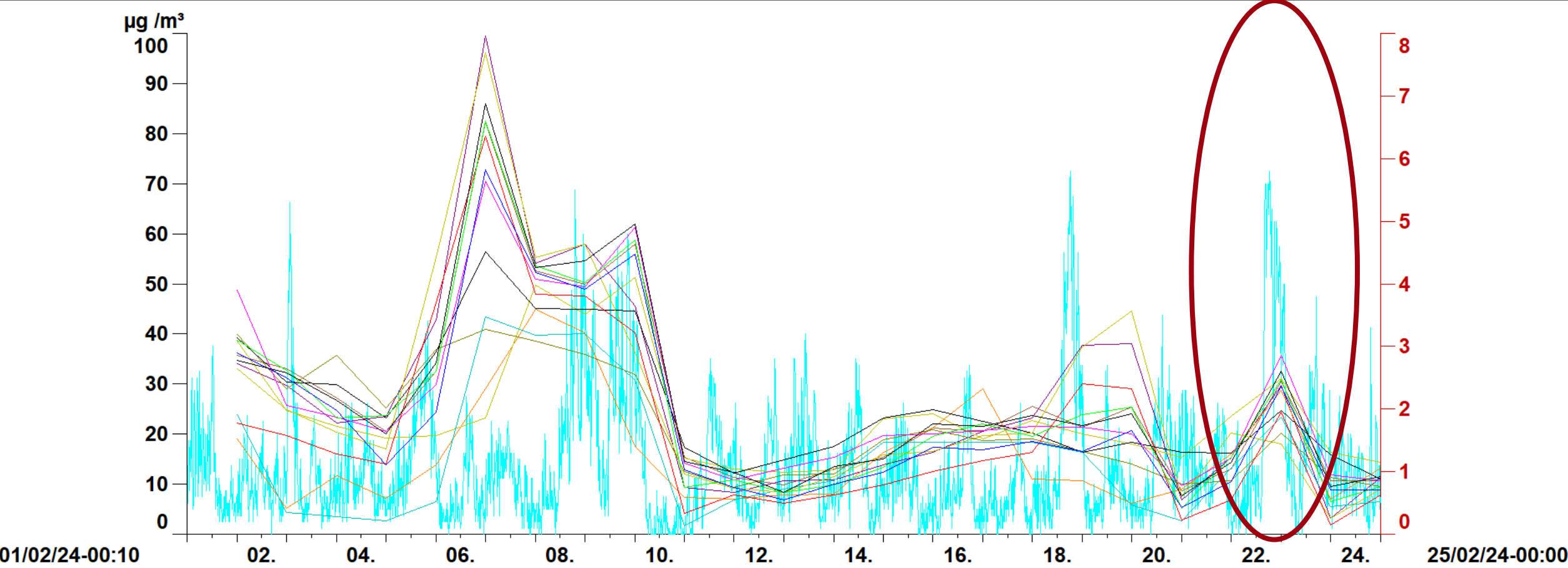
Station:	BZ4	BZ5	LS1	AB2	CR2	ME1	LA1	AB3	BX1	BR1	ML2	ML3	ML5	ML6	CR2	LA1
Seehoe	247	260	230	230	212	297	640	570	564	830	960	212	230	0	212	640
Messwe	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	VEL_V	VEL_V
MW-Typ	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	ZM/MW	ZM/MW
Zeitrau	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Y - Achs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Muster:	—	—	—	—	—	—	—	—	—	—	—	—	—	—		



Station:	BZ4	BZ5	LS1	AB2	CR2	ME1	LA1	AB3	BX1	BR1	ML2	ML3	ML5	ML6	CR2	LA1
Seehoe	247	260	230	230	212	297	640	570	564	830	960	212	230	0	212	640
Messwe	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	VEL_V	VEL_V
MW-Typ	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	ZM/MW	ZM/MW
Zeitrau	1	PM10 Transport aus der Po-Ebene, trasporto di PM10 dalla Pianura Padana -1												1	1	1
Y - Achs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Muster:	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—



Station:	BZ4	BZ5	LS1	AB2	CR2	ME1	LA1	AB3	BX1	BR1	ML2	ML3	ML5	ML6	CR2	LA1
Seehoe	247	260	230	230	212	297	640	570	564	830	960	212	230	0	212	640
Messwe	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	PM10	VEL_V	VEL_V
MW-Typ	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	TM-75/	ZM/MW	ZM/MW
Zeitrau	1	PM10 Transport aus der Po-Ebene, trasporto di PM10 dalla Pianura Padana - 2													1	1
Y - Achs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Muster:	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



Danke für Ihre Aufmerksamkeit

Grazie per la Vostra attenzione