



9th IWA ODOURS & VOC/AIR EMISSIONS CONFERENCE

LESSONS LEARNED IN THE ELABORATION OF THE FIRST ODOUR REGULATION IN CHILE

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Oleres.org

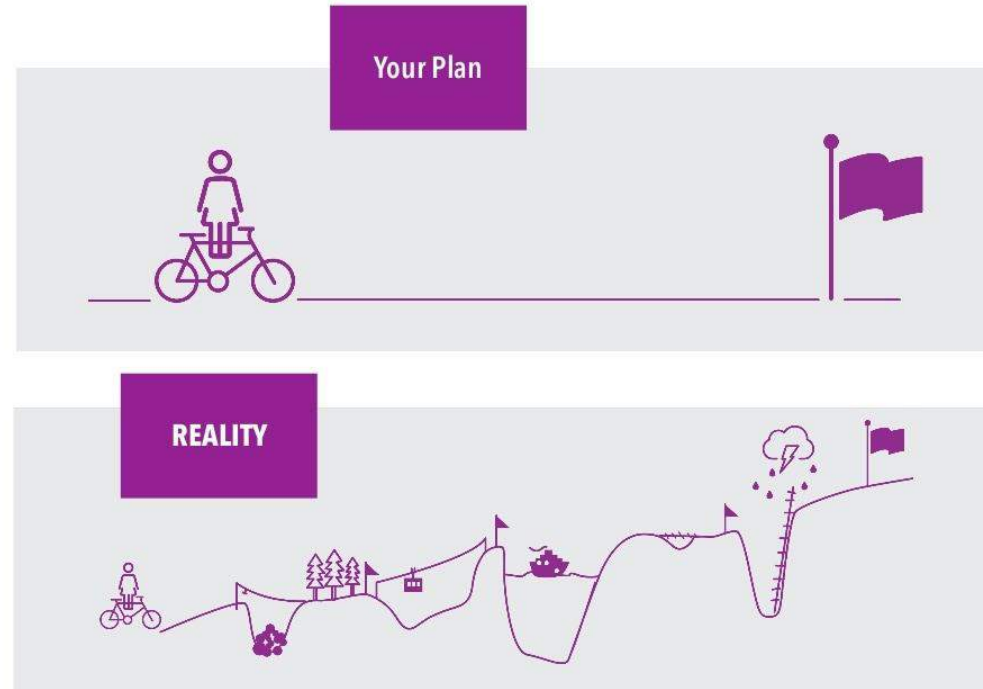
Noise, Light and Odour Department Air Quality Division



Odour Public Management Strategy in Chile

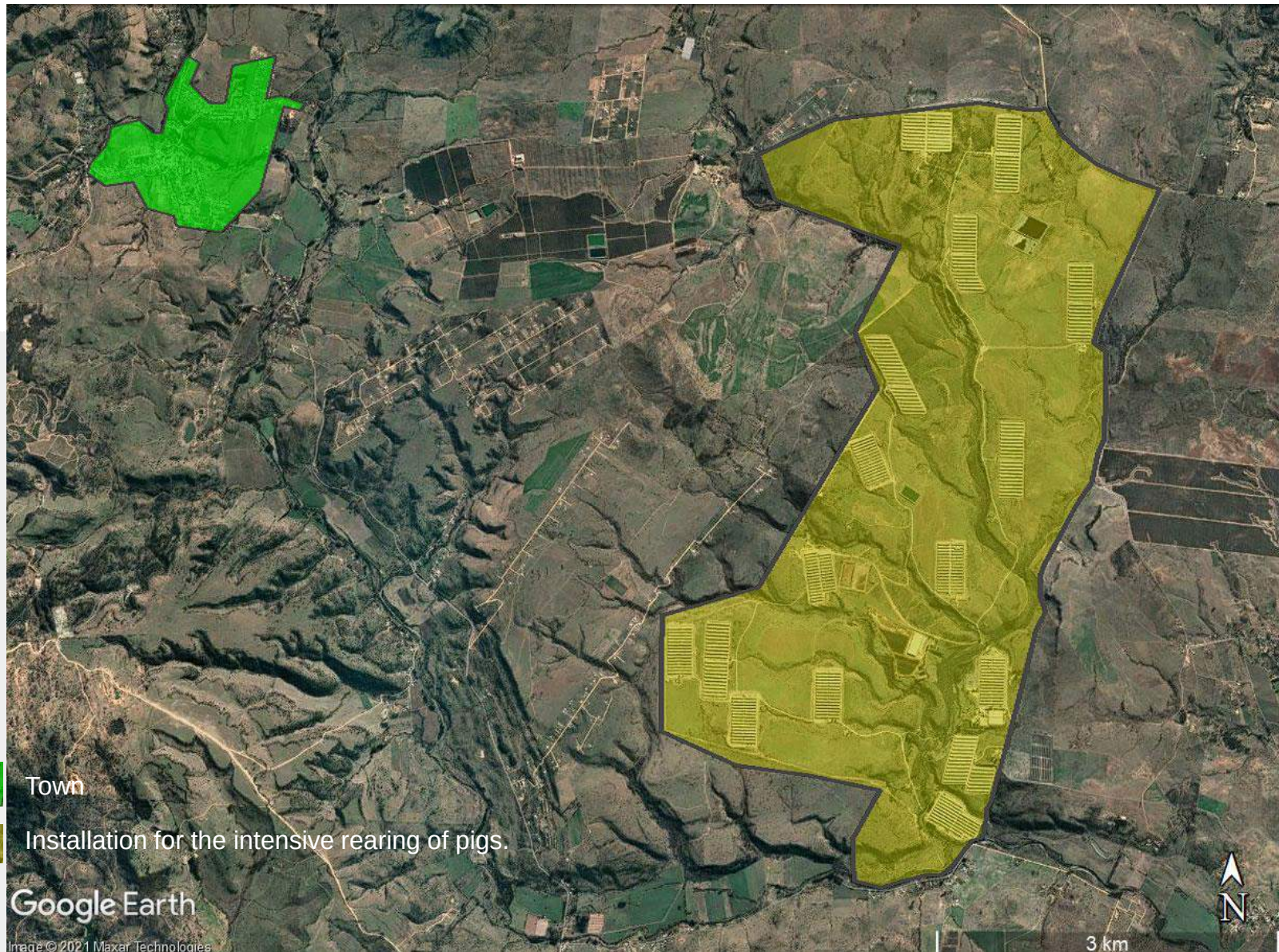


First Odour Regulation



Challenge 1:

**The emitting sources differ widely in their size
by number of animals.**



Town

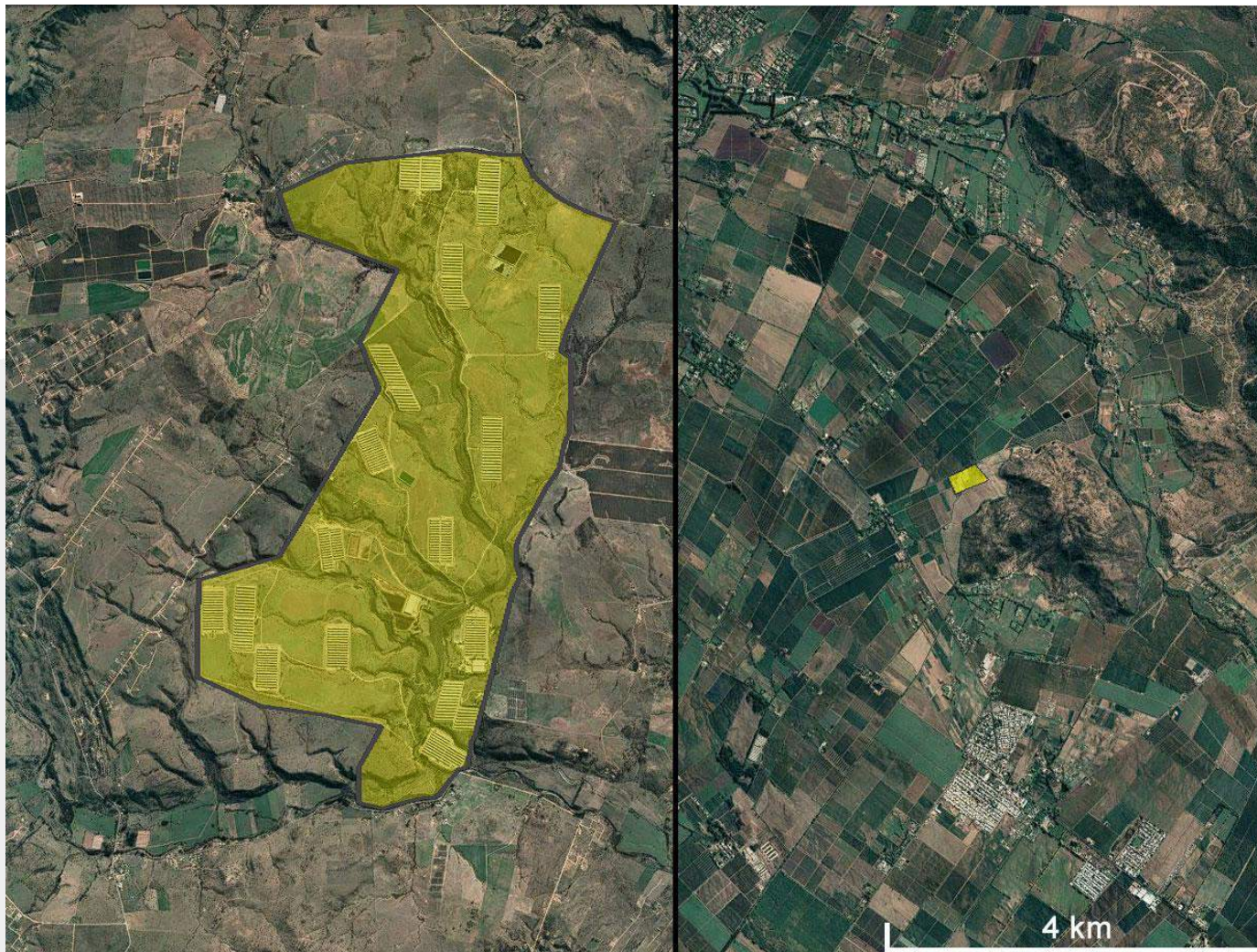


Installation for the intensive rearing of pigs.

Google Earth

Image © 2021 Maxar Technologies

Large
Pig Farm
15.7 km²
(15'657'594 m² –
1'566 hectares)



Small
Pig Farm
0.1 km²
(67'749 m² –
6.8 hectares)

The small pig farm fits 230 times in the large pig farm
(67'749 / 15'657'594 = 231.1)

Challenge 2:

Proximity between communities and emitting sources



Community



Installation for the intensive rearing of pigs.

Google Earth

Image © 2021 Maxar Technologies



500 m



Google Earth

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Challenge 3:

Uncertainty due to the lack of territorial planning

2018

4/2018

Residential area

Installation for the intensive rearing of pigs.

Google Earth

Image © 2024 CNES / Airbus



1 km

2021

4/2021

Residential area

Installation for the intensive rearing of pigs.

Google Earth

Image © 2021 Maxar Technologies



1 km

2018

4/2018

Residential area

Installation for the intensive rearing of pigs.

Google Earth

Image © 2024 CNES / Airbus



1 km

2021

4/2021

Residential area

Installation for the intensive rearing of pigs.

Google Earth

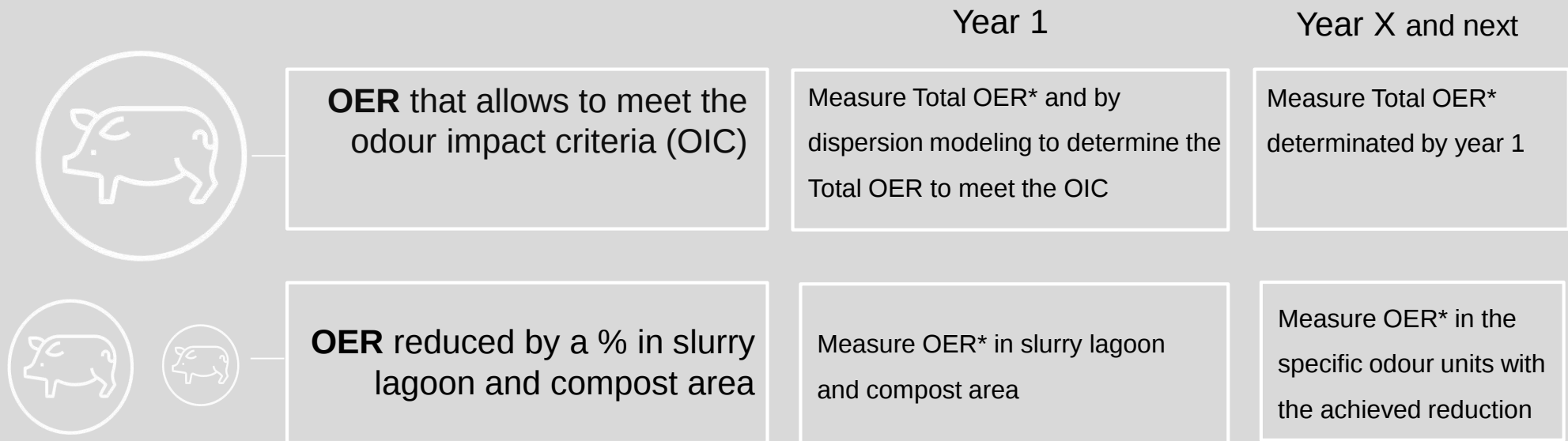
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1 km

Final Draft First Odour Regulation in Chile

- Requirements by size of emission sources (by number of animals)
- Limits expressed in **Odor Emission Rate (OER)**



* By NCh3190, which is a transposition of the European EN 13725.
Note: The final draft of the first odour regulation is still in progress

Final Draft First Odour Regulation in Chile

				
Odour Limits	OER that allows to meet an odorant impact criteria			
	OER reduced by a % in slurry lagoon* and compost area			
Other Requirements	On-line Report gases and operational parameters by technology			
	Operational Practices			

OER: Odour Emission Rate

LESSONS LEARNED IN THE ELABORATION OF THE FIRST ODOUR REGULATION IN CHILE

1. A deeper diagnosis by sectors can facilitate to get more effective requirements.
2. It is necessary to diversify approaches.
3. To have a strategy is important because odour standard is only a part of the solution.

New odour regulation in Chile can open future possibilities to odour regulations in Latin America



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Thanks!



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