

Managing highly mobile species across Mediterranean Marine Protected Areas

Organised by:



AKDENİZ KORUMA DERNEĞİ
Mediterranean Conservation Society

With the support of:



FONDS FRANÇAIS POUR
L'ENVIRONNEMENT MONDIAL

AGENCE FRANÇAISE
POUR LA BIODIVERSITÉ
MINISTÈRE DE L'ENVIRONNEMENT



COGITO
ASSOCIATION

Conservatoire du
littoral



Expérimentation d'Observation
et d'Action Environnementale



GIS
3M



FONDS FRANÇAIS POUR
L'ENVIRONNEMENT MONDIAL

AGENCE FRANÇAISE
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MINISTÈRE DE L'ENVIRONNEMENT



DS11 | The impact of marine litter and pollution on highly mobile species: challenges beyond boundaries

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Logo(s) of organisation(s)

Kentish plover (*Charadrius alexandrinus*) conservation on Adriatic Italian coast



Speaker: **Fabio VALLAROLA**

(Torre del Cerrano MPA Management Consortium, ITALY)

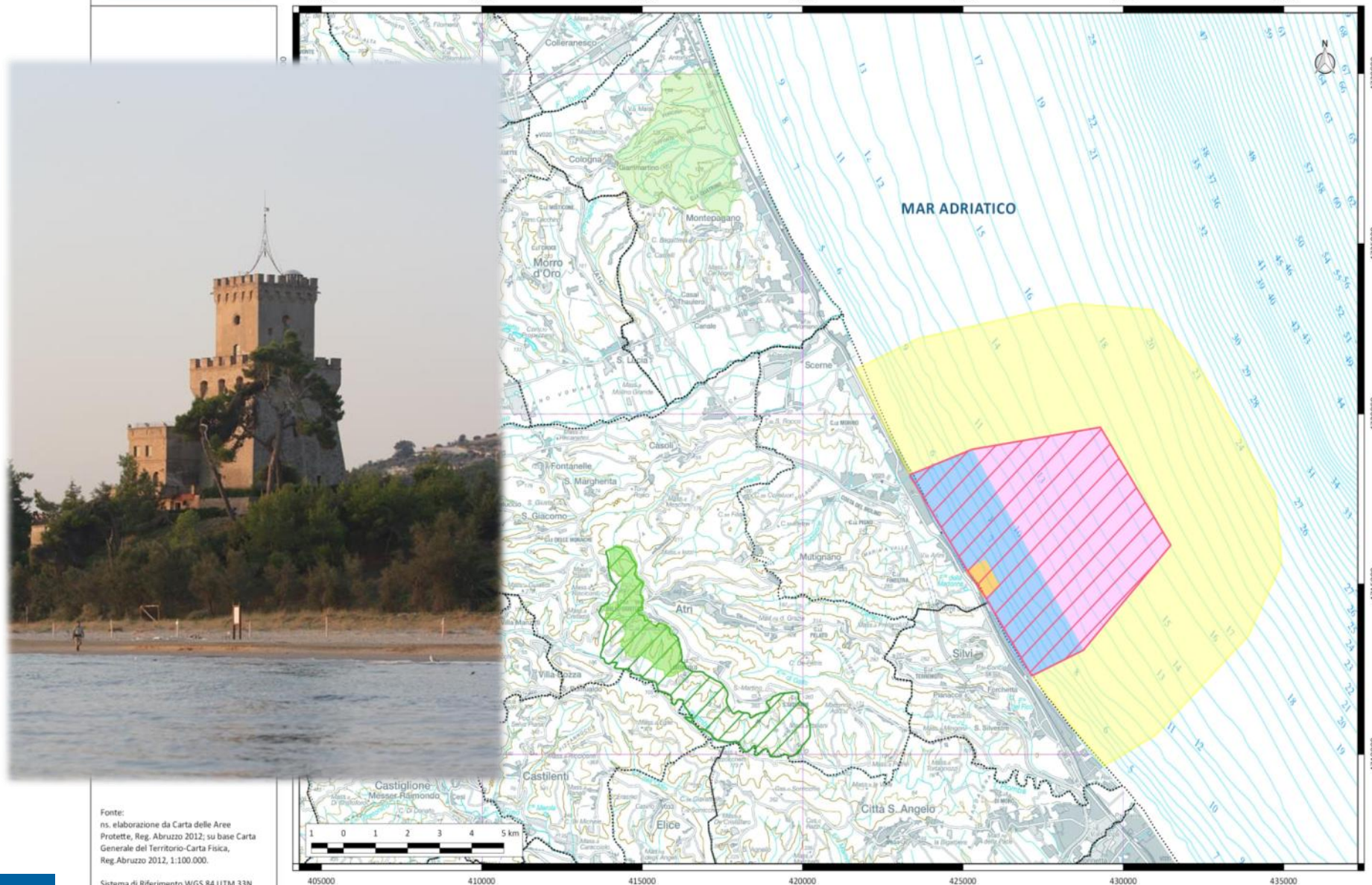
info@torredelcerrano.com





SUMMARY

- Adriatic sea coast
- Torre del Cerrano MPA
- Dunes habitat
- Tourism activities
- Kentish plover migration
- Kentish plover nests
- Bad rivers management
- Plastic in the sea
- Cleaning the beaches
- Nests destructions



Fonte:
ns. elaborazione da Carta delle Aree
Protette, Reg. Abruzzo 2012; su base Carta
Generale del Territorio-Carta Fisica,
Reg. Abruzzo 2012, 1:100.000.

Sistema di Riferimento WGS 84 UTM 33N

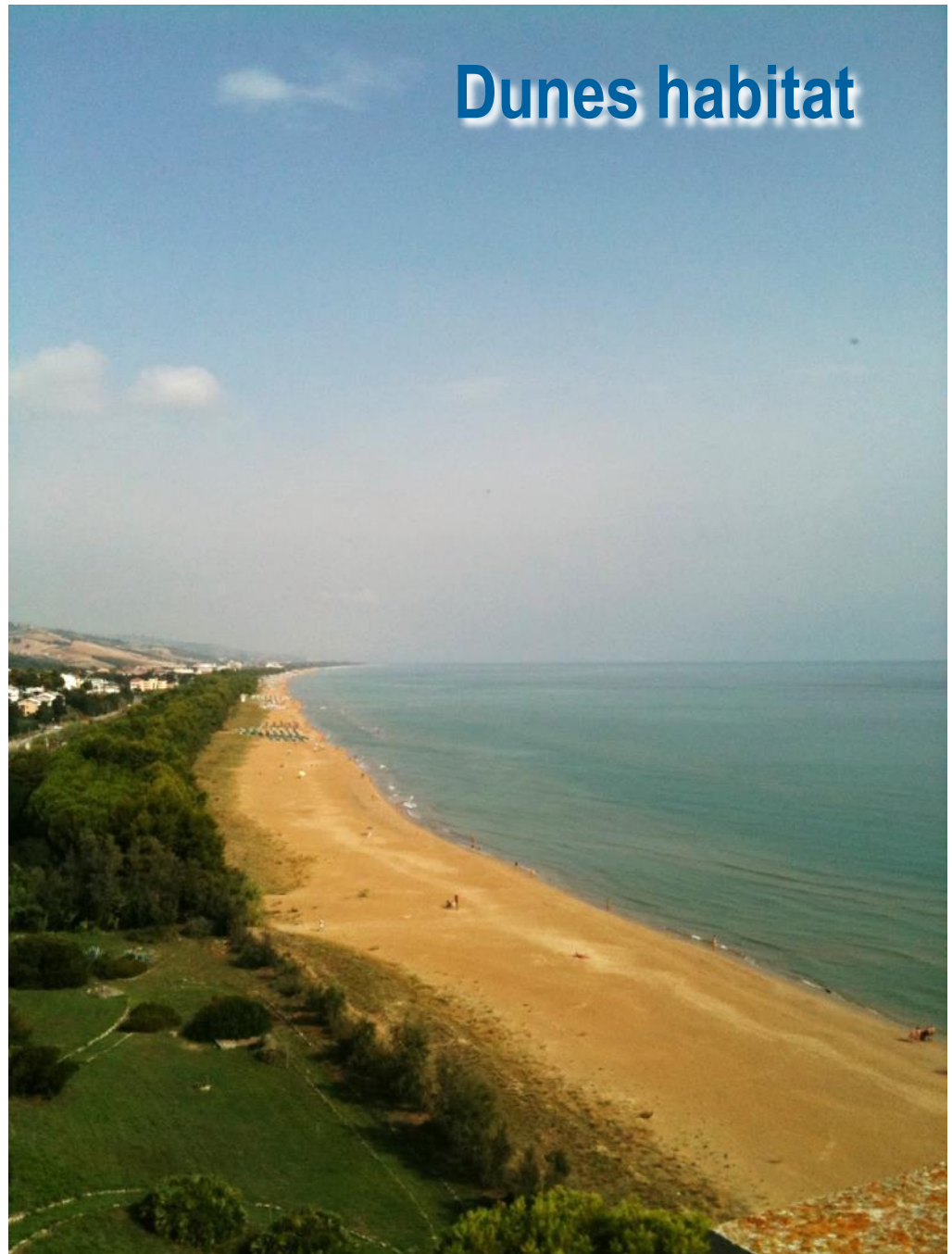
Context and issue



**Torre del
Cerrano
MPA**



Dunes habitat



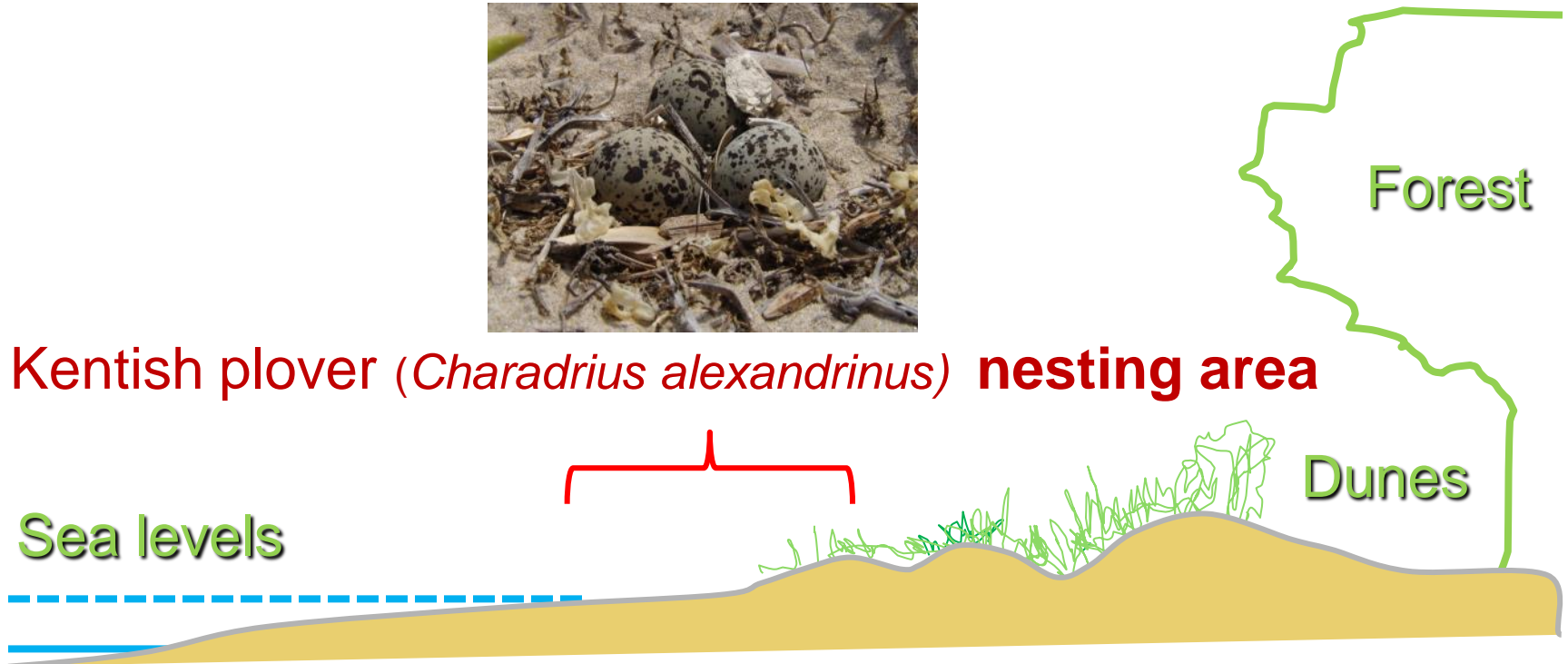


Typical Adriatic tourism on the beach

Dune's ecosystems



Kentish plover (*Charadrius alexandrinus*) **nesting area**







NATURA 2000 - STANDARD DATA FORM

Kentish plover (*Charadrius alexandrinus*)

SITE IT7120215
SITENAME Torre del Cerrano

Specie annex II



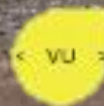
Kentish plover (*Charadrius alexandrinus*)



Liste Rosse italiane

Charadrius alexandrinus

IUCN, Unione Mondiale per la Conservazione della Natura, aiuta il mondo a trovare soluzioni pragmatiche per le sfide ambientali e di sviluppo più urgenti



Migration of Kentish plover



From Mediterranean sea
to the rest of the world

Charadrius alexandrinus (Kentish Plover)

Breeding population sizes and short-term trends across Europe

Kentish plover (*Charadrius alexandrinus*)

- ▲ Large increase ($\geq 50\%$)
- ▲ Moderate increase (20–49%)
- ▲ Small increase ($< 20\%$)
- ⬆ Increase of unknown magnitude
- ▼ Large decrease ($\geq 50\%$)
- ▼ Moderate decrease (20–49%)
- ▼ Small decrease ($< 20\%$)
- ⬇ Decrease of unknown magnitude
- Stable or fluctuating
- Unknown
- Present (no population or trend data)
- × Extinct since 1980

THE IUCN RED LIST OF THREATENED SPECIES™
BirdLife International (2015) European Red List of Birds

Breeding: short-term trend
Charadrius alexandrinus

Plastic in the Oceans rise in the last 50 years

4 out of 5 top ocean polluters are made of plastic

11.4%



Plastic Bottles

5.9%



Plastic Bottle Caps

5.5%



Food Wrappers

3.7%



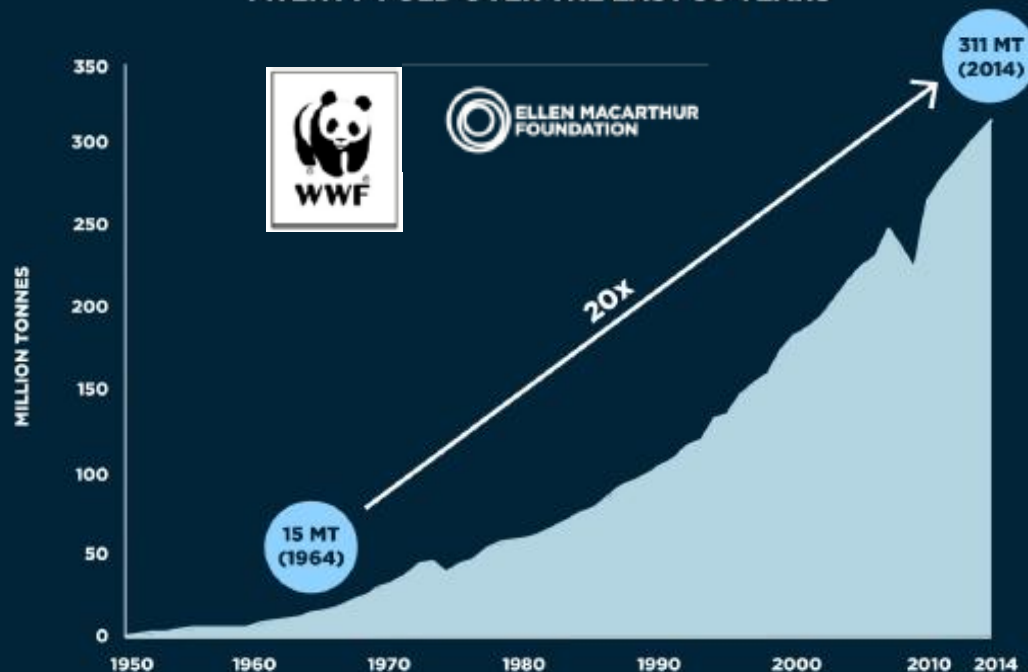
Plastic Bags



Source: International Coastal Cleanup 2017 Report

Bloomberg

PLASTICS PRODUCTION INCREASED
TWENTY-FOLD OVER THE LAST 50 YEARS



DENSELY POPULATED AREA
WITH **INTENSE HUMAN ACTIVITY**

208-760km/year of solid urban waste
produced by 150 million people

OVER 200 MILLION TOURISTS

+40% marine litter
during summer

INADEQUATE
WASTE POLICIES

Out of the 27 million tonnes/year
of plastic waste produced
only a third is recycled



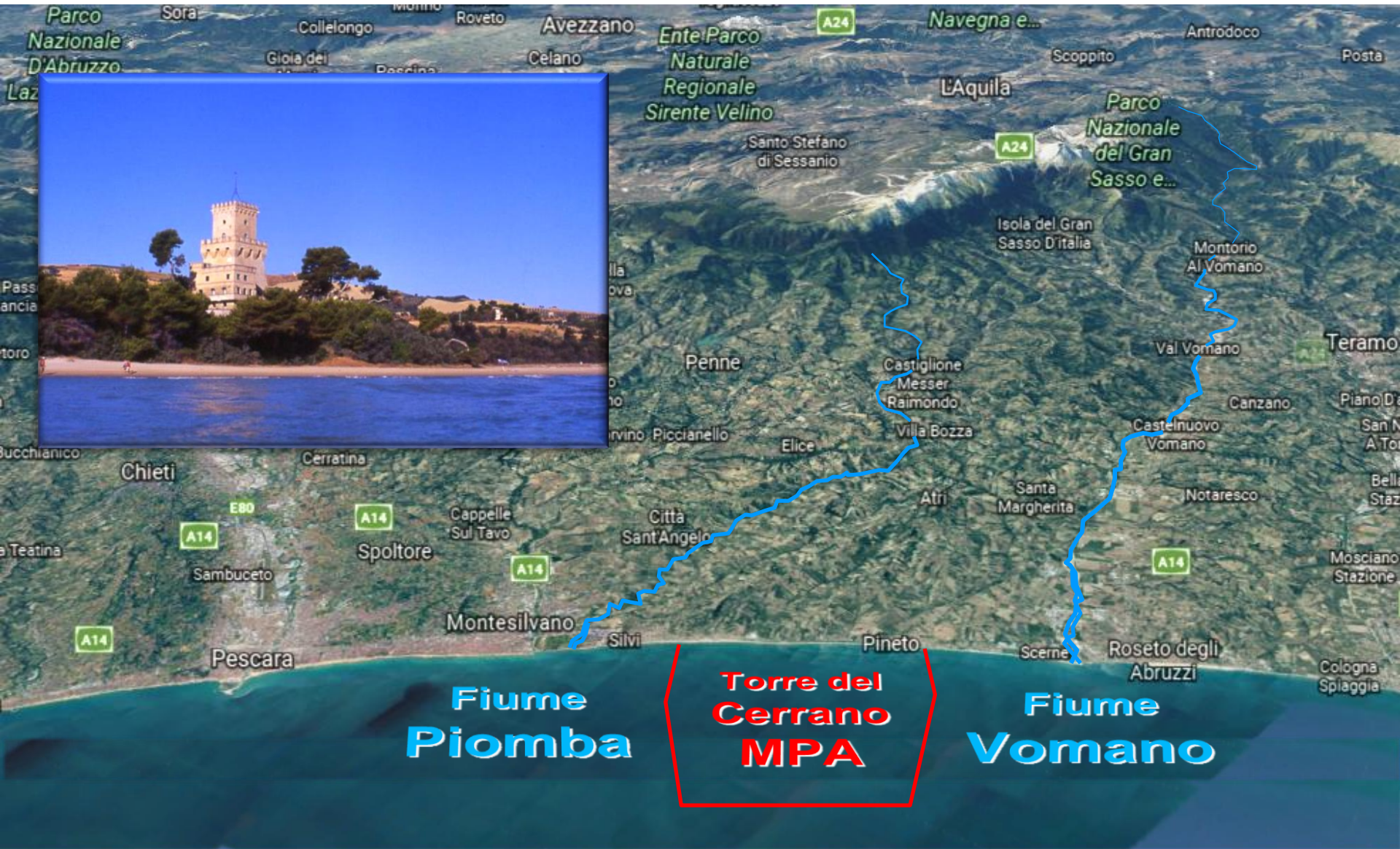
THE PROBLEM every spring in the last 20 years

Marine litter.

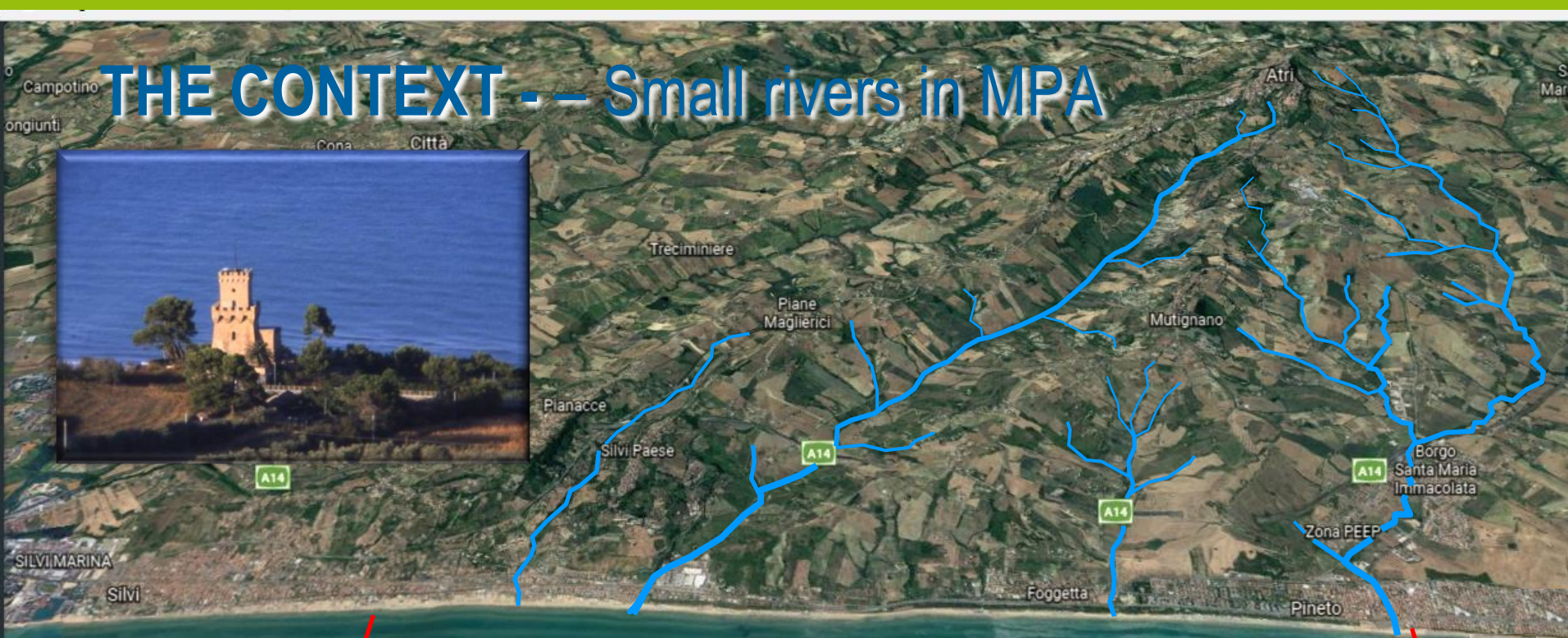
Waste from rivers during floods



THE CONTEXT – Most important rivers



THE CONTEXT - Small rivers in MPA



Concio

Cerrano

Foggetta

Calvano

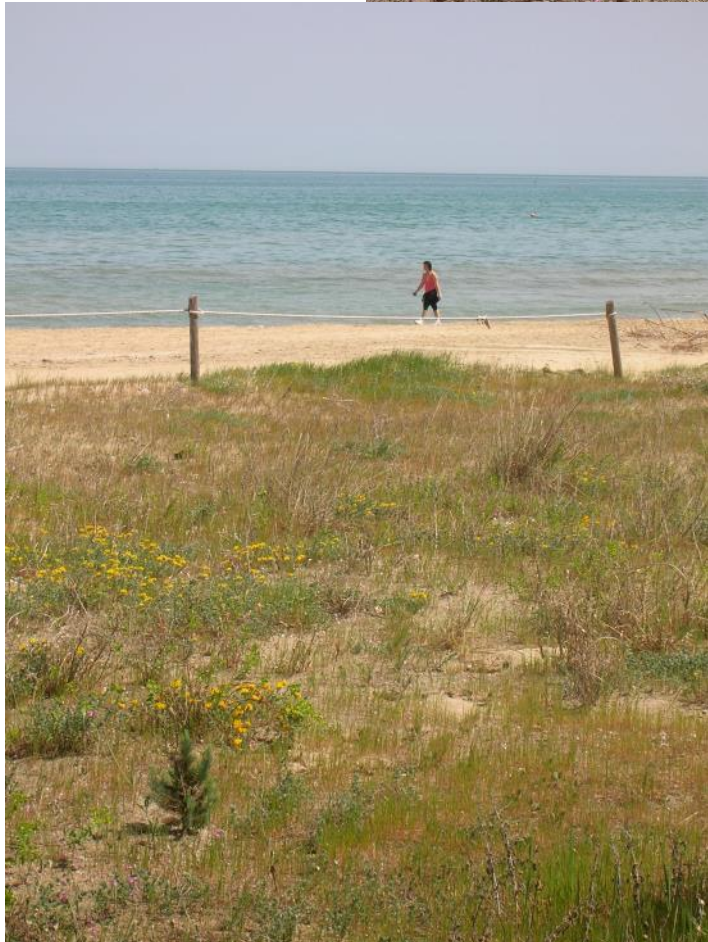
**Torre del Cerrano
Marine
Protected
Area**

Cleaning the beaches

with big machines
everywhere
in the last 20 years



Trying
to stop
them!



HOW to SOLVE THE PROBLEM

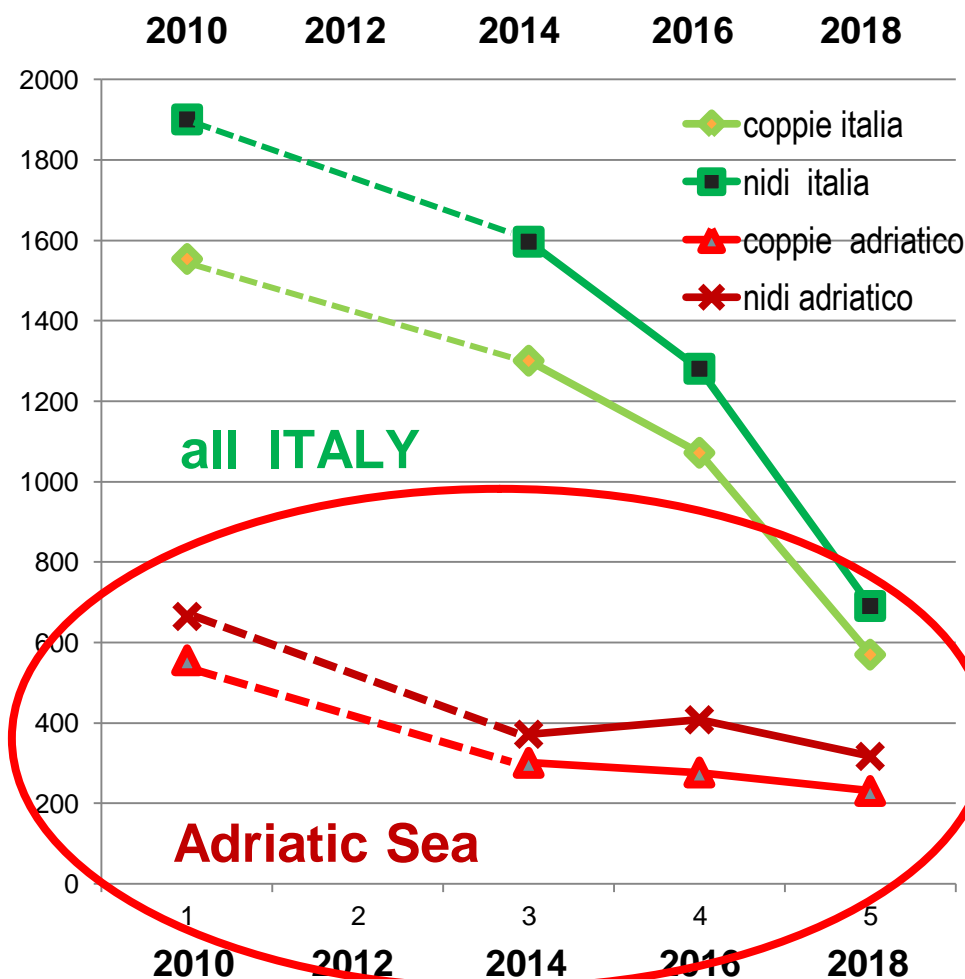
Saving the Kentish plover (*Charadrius alexandrinus*) nests



TREND in ITALY and along the Adriatic Sea



	n. coppie/nidi 2009-2010	n. coppie/nidi 2014	n. coppie/nidi 2016	n. coppie/nidi 2018
Friuli Venezia Giulia	1-3	0-1 cens.	3 cens.	1 cens.
Veneto	328-383	112-132 cens. e stime	135-168 cens. e stime	127-131 cens. e stime
Emilia-Romagna	40-50	51 cens.	33-55 cens.	30-41 cens.
Marche	18-24	8-16 cens. parziale	18 cens.	13-16 cens.
Abruzzo	52	52 stima 2010	21-49 cens.	16-22 cens.
Molise	20	20 stima 2009-2010	15 cens.	6 cens.
Puglia	97-133	58-100 cens. e stime	52-100 cens. e stime	38-100 cens. e stime
Basilicata	25-30	25-30 stima 2009-2010	25-30 cens. e stima	11-20 cens.
Calabria	100	100 stima 2009-2010	100 stima 2009-2010	100 stima
Sicilia	250-400	250-400 stima 2009-2010	53 cens.	20 cens. e stime
Campania	2-8	5 cens.	5-6 cens.	10 cens.
Lazio	10	12 cens.	15-17 cens.	14-16 cens.
Toscana	31-43	28-33 cens.	17-22 cens.	9-14 cens.
Sardegna	580-645	580-645 stima 2009-2010	580-645 stima 2009-2010	175-194 cens.
TOTALE	1.554-1.901	1.301-1.597	1.072-1.281	570-691



TREND in long period along the Adriatic Sea



Declino > 50% in 10 anni in Italia (2011)

- Lista Rossa italiana: EN *endangered* (2011)
- IUCN Red List: LC *Least concern*
- SPEC 3: status 'in declino' (6%, declino – 10/50%)

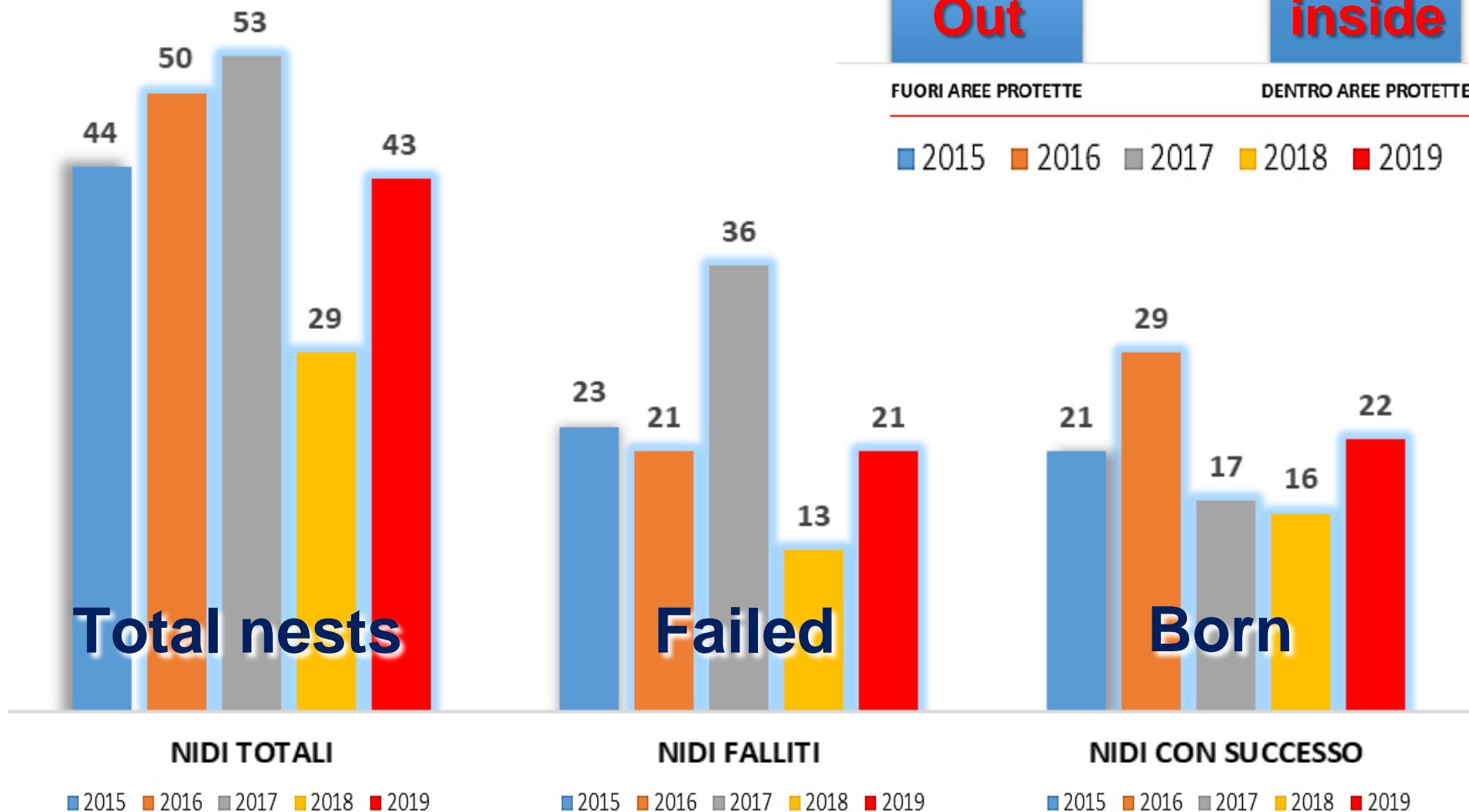


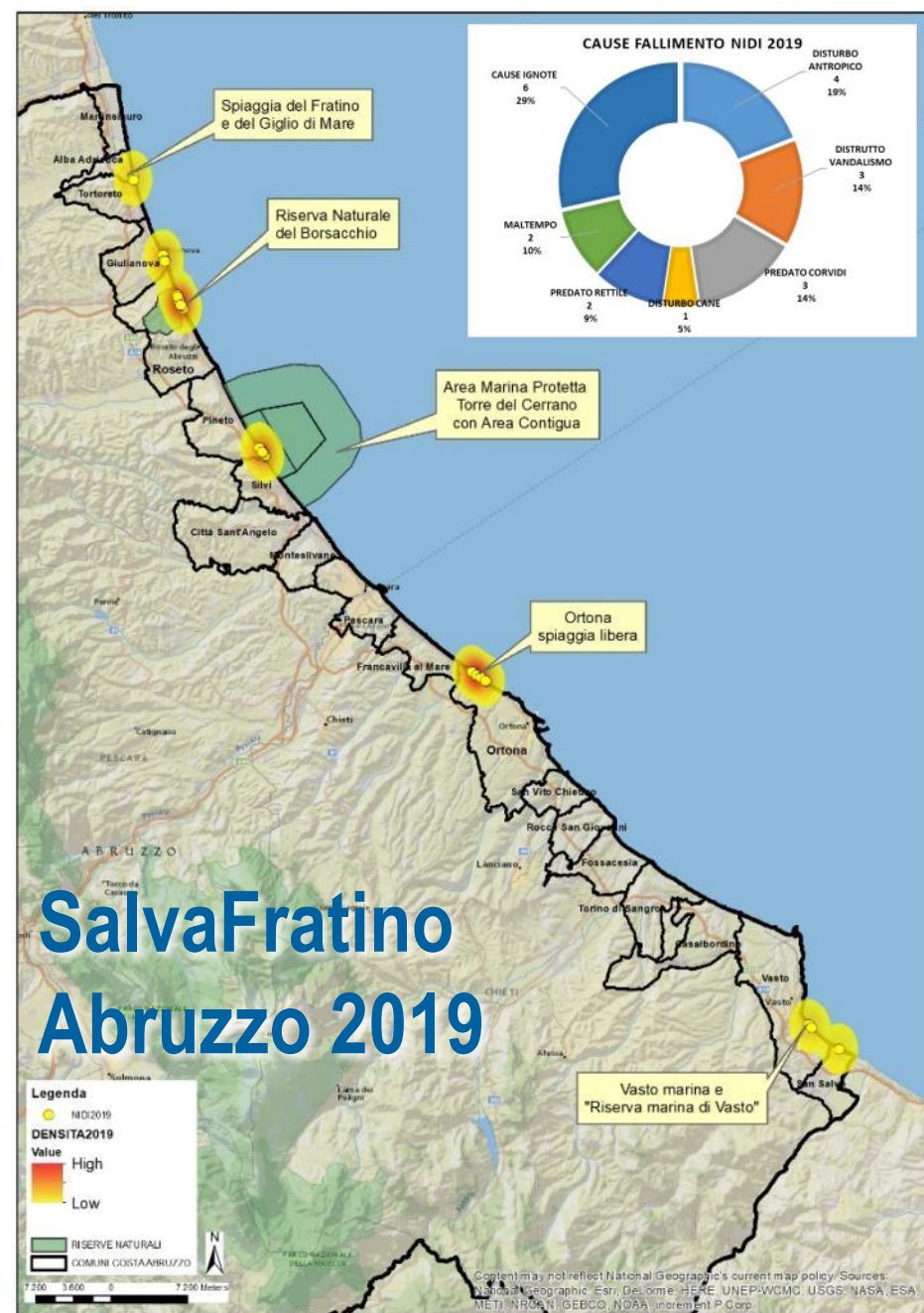
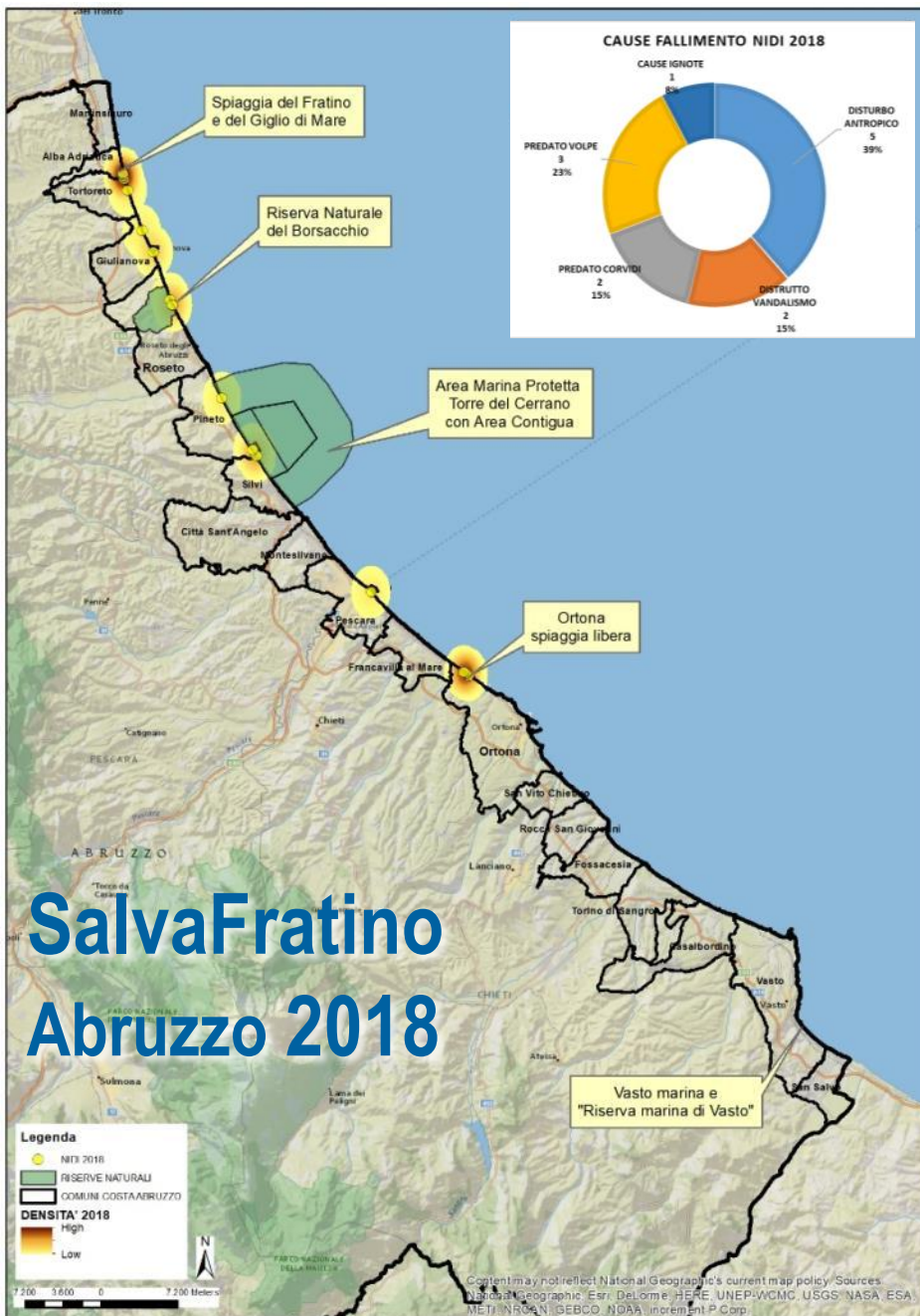
ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale



Trend in Abruzzo 2015 - 2019





Main reason of number decrease

A Dogs walking on the beaches

B Beaches massive cleaning

C Massive tourism



Beaches cleaning

Dogs on the beaches

		% siti	% coppie/nidi
B	Pulizia degli arenili (soprattutto meccanica)	53 %	54 %
C	Presenza bagnanti/turisti	53 %	55 %
	Presenza pescatori sportivi	11 %	7 %
A	Presenza cani senza guinzaglio	78 %	77 %
	Randagismo	6 %	12 %
	Transito veicoli	15 %	56 %
	Erosione litorale	19 %	20 %
	Presenza specie sinantropiche predatrici (gatti, ratti, volpi, cornacchie, gabbiani reali)	22 %	26 %
	Allestimento stabilimenti/capanni balneari	11 %	10 %
	Spettacoli ed eventi sulla spiaggia	3 %	2 %
	Maltempo e mareggiate		
	Innalzamento livelli idrici		
	Attività di kite-surf		



THE SOLUTION

- How to reach a definitive solution?

1 - Reduction of plastic and dispersion

Cooperation between different public administration on a best river management.

2 - Different solution for cleaning beaches

New rules and news techniques with municipalities.

3 - Research and monitoring for protection

Professional activities and Volunteers campaigns.

4 - Surveillance

Coast Guard and Volunteers with the best technologies.

SOLUTION 1: Reduction of plastic and dispersion

The Marine Protected Area of “*Torre del Cerrano*” promoted a
“**River Contract**” process on late 2015

“*River Contract*” is a tool from ***EU Water Framework Directive***
on integrated river basin management.

It is a contractual undertaking between several local owners and their financial partners (State, Water Agency, Region, Department ...) in order to carry out a work program. The contract has **no legal effect**.

The interest of this "contractual" approach is to take into account the major problems related to water in a relevant and coherent territory (a river and its watershed) by involving all actors and users of this territory.

SOLUTION 1

IMPLEMENTATION PROCESS & ACTORS INVOLVED



River Contract bodies



Steering cabin:

Atri municipality
Pineto municipality
Silvi municipality
Province of **Teramo**
Region of **Abruzzo**

Assembly:

- Experts
- Industry managers
- Tourism operator
- NGO
- Stakeholders
- Citizen
-

Scientific technical secretariat
Marine Protected Area of «Torre del Cerrano»

SOLUTION 2: Different forms for cleaning beaches

European Charter for Sustainable Tourism - ECST

Director Arch. Fabio Vallarola
Area Marina Protetta Torre del Cerrano
Casella Postale No. 34
64025 Pineto (Te)
ITALY

06 November 2014

Dear Director Arch. Fabio Vallarola,

**Area Marina Protetta Torre del Cerrano
Award of European Charter for Sustainable Tourism in Protected Areas**

Following the official verification in your protected area of the work under the European Charter for Sustainable Tourism in Protected Areas, I am pleased to inform you that the Evaluation Committee, at its recent meeting, examined carefully the thorough report which the appointed verifier prepared as a result of his visit to the area.

Decision and recommendations:

It was unanimously agreed to award the Charter certificate to Area Marina Protetta Torre del Cerrano for a five-year period from 2014 to 2019.

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SOLUTION 2

First action for marine litter



Volunteer actions....



... diving



... and walking.

SOLUTION 3

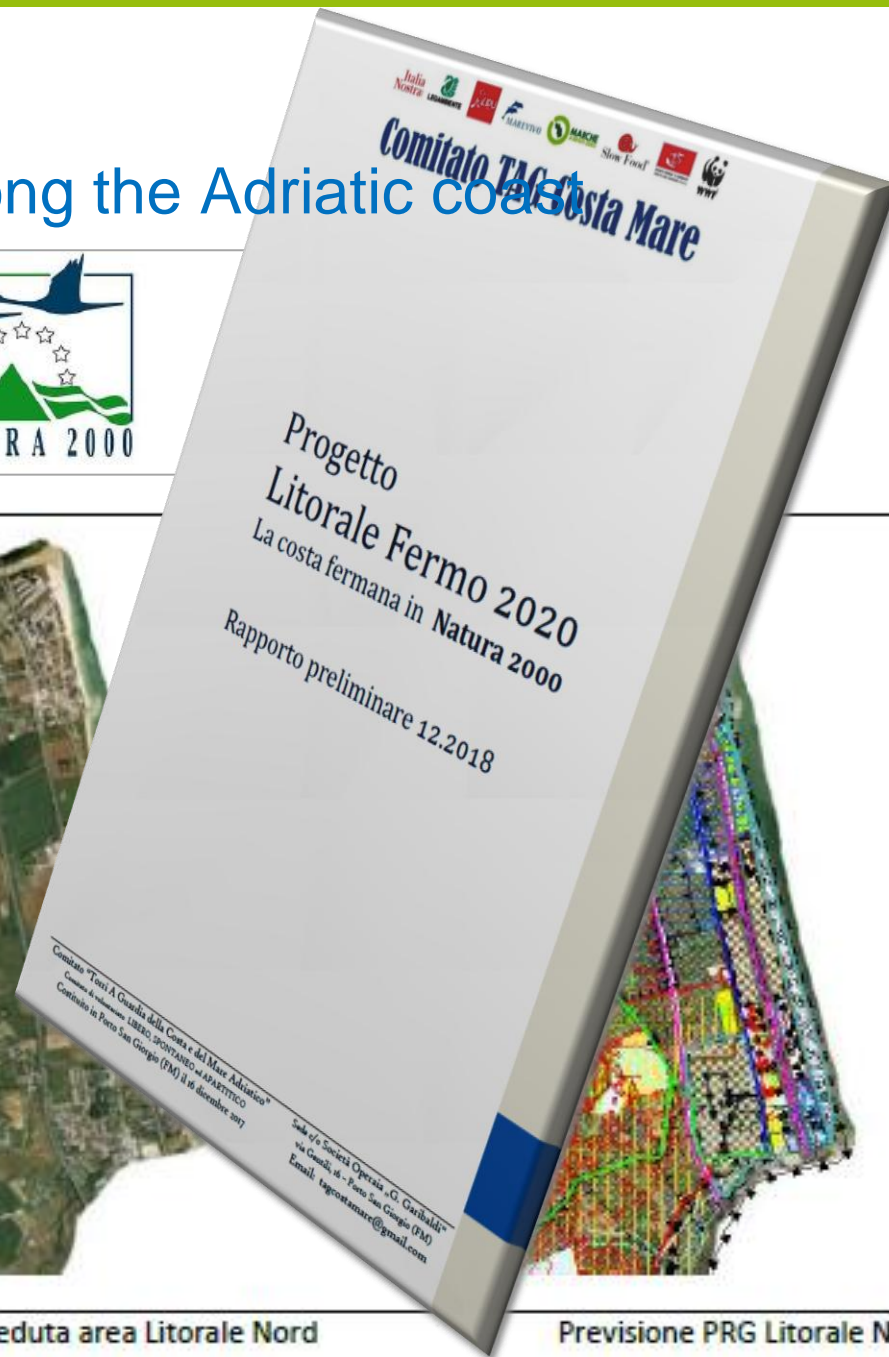
New protected areas along the Adriatic coast



Piano Demaniale Litorale Nord



Veduta area Litorale Nord



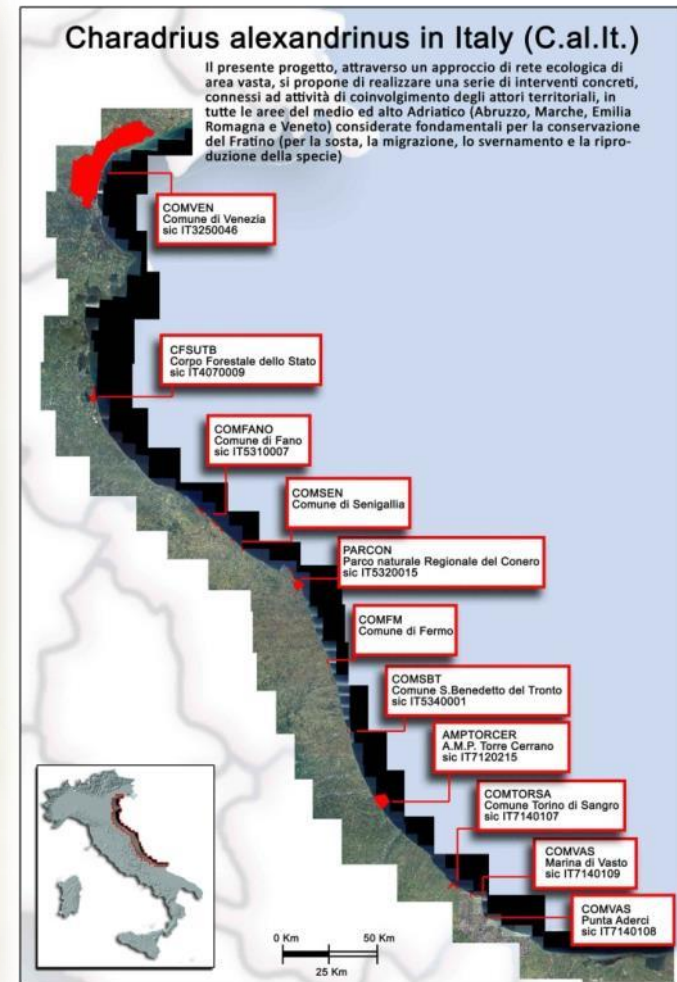
Previsione PRG Litorale Nord

SOLUTION 3

EU projects with partners along the Adriatic coast



Foto Marco CIRILLO



SOLUTION 4



Involvement
Coast Guard
and other
security corps



SOLUTION 4

Involvement of Volunteers in surveillance campaigns



SalvaFratino Project in Abruzzo

Inviare all'AMP le vostre
Segnalazioni

Is this approach replicable? *Yes, let's start with volunteers coordination !*

Comitato Nazionale Conservazione Fratino *on National stage*



www.cncf.it
info@cncf.it



Progetto SalvaFratino *on Local and Regional stage*



www.torredelcerrano.it
info@torredelcerrano.it



Teşekkür ederim!

Speaker's name
Speaker's email address