![ID Stat logo]

Think Different !

"Innovative technology for assessing

wildlife collisions with wind turbines"

>> Development partners
>> ID-Stat, description, test
>> Applications

Developed   and   patented

In   collaboration   with

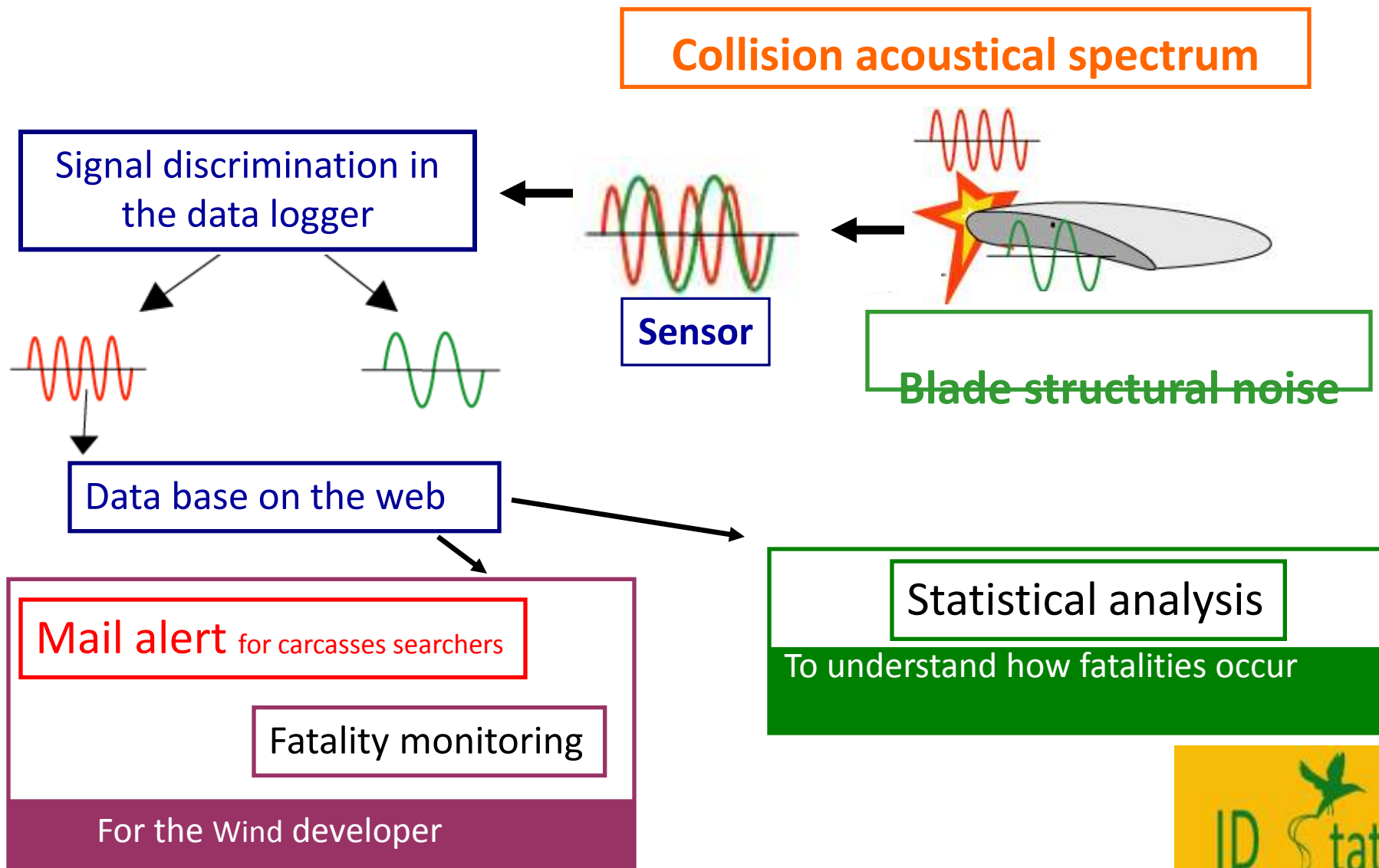M. Bertrand DELPRAT

14 rue Picard

44 620 La Montagne

France

M.Aymeric MINOT

1 rue de Longpont

91 311 Montlhéry

France

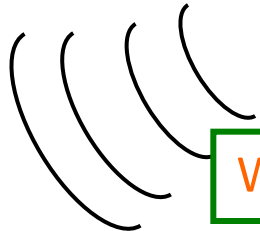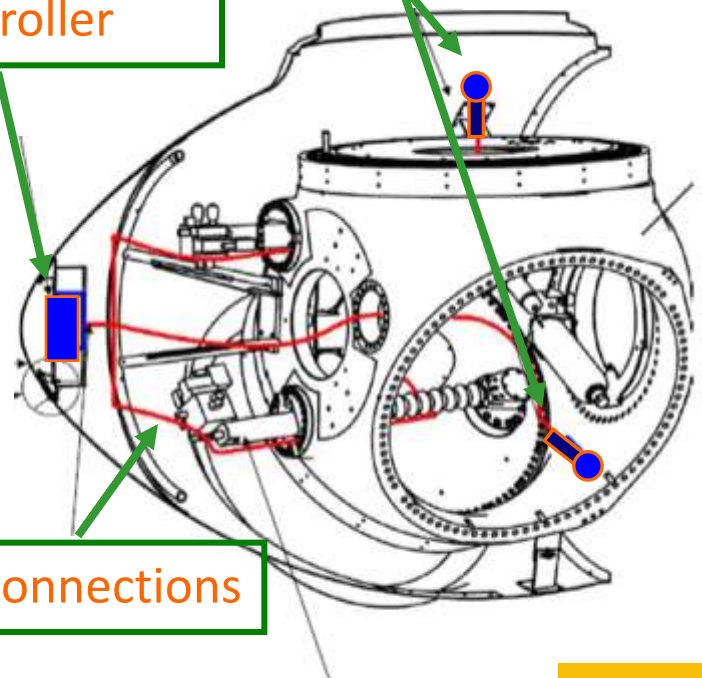# >> ID-Stat, automatic and standard collision detector

Collision acoustical spectrum

Signal discrimination in the data logger

Sensor

Blade structural noise

Data base on the web

Mail alert for carcasses searchers

Fatality monitoring

For the Wind developer

Statistical analysis

To understand how fatalities occur

ID Stat ®

>> ID-Stat, non-invasive vibro-acoustic collision detector

Three microphones

NON-INVASIVE ATTACHMENT

Data logger connected in hub controller

Wire connections

GSM technology
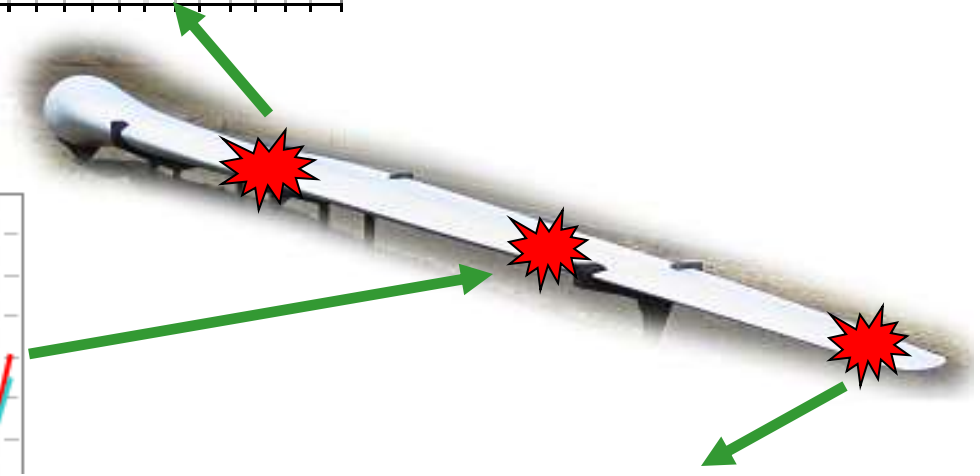
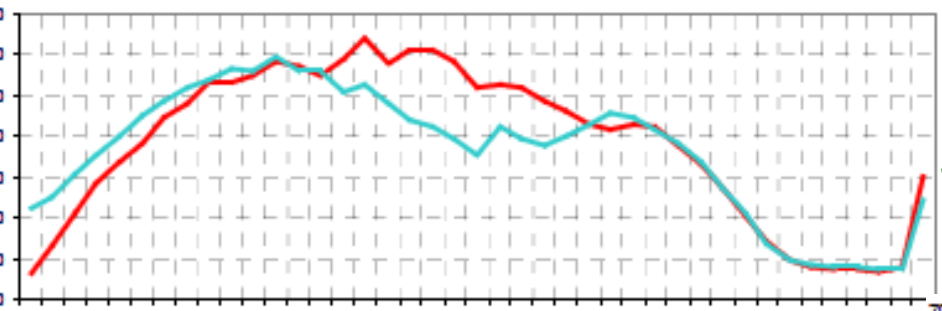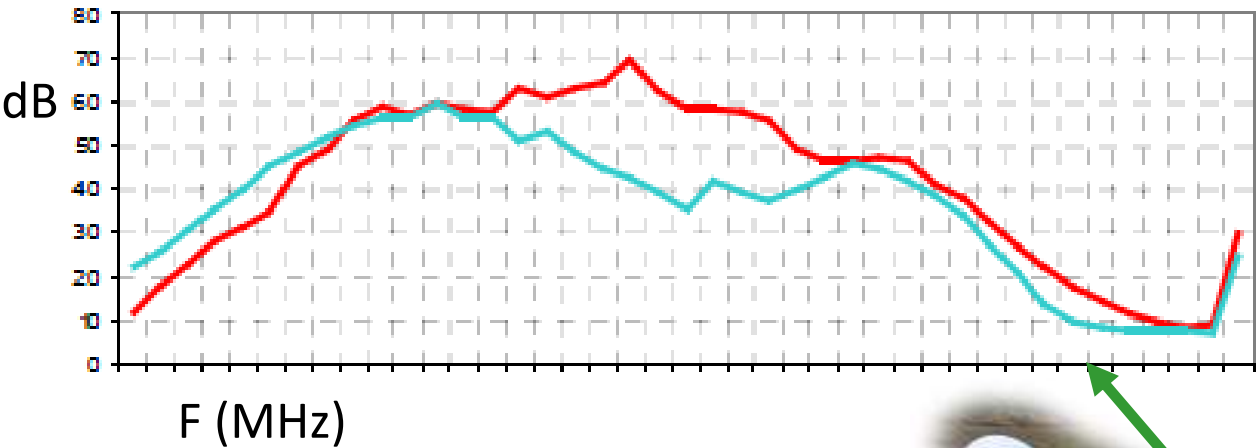for data collection ...

ID Stat

>> Test issues

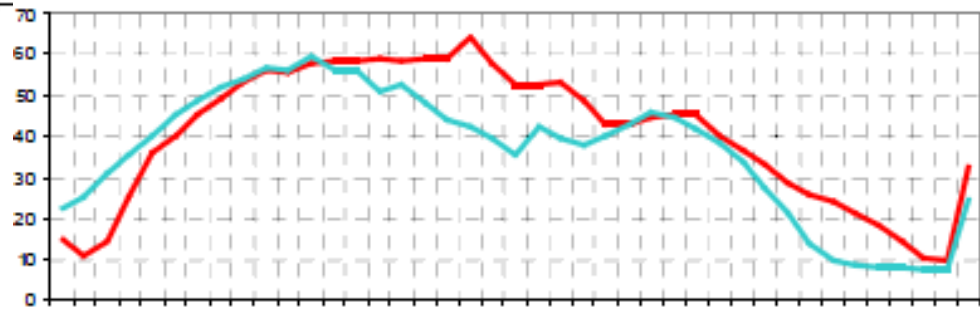⇨ acoustical detection validation

⇨ acoustical detection level

⇨ ID–Stat validation for industrial applications

>> Blade acoustical properties …

Acoustical spectrum constant from base to tip

dB

F (MHz)

Red is the collison + laboratory structural noise
Blue is the structural noise

>> First test results

=> Collision detection

–> with flying chicks 30g

–> with "artificial bird" 2,5g *Customised chicken gun* ®
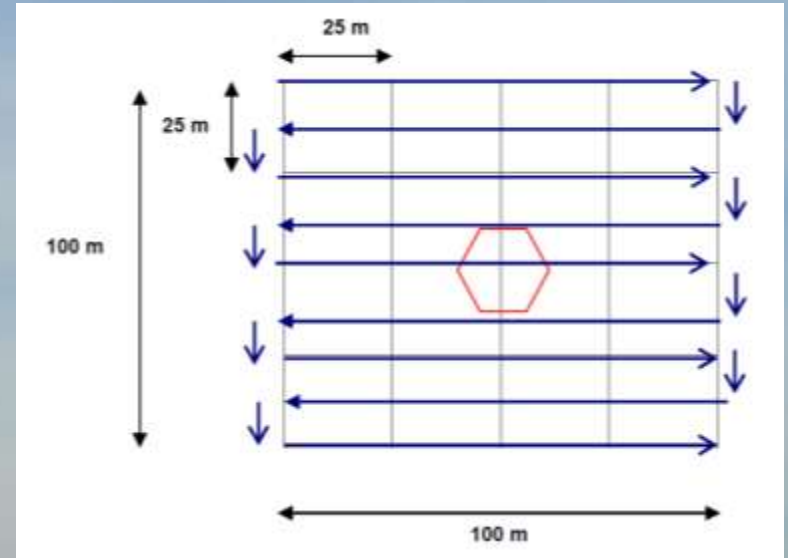
Gold crest 4 to 7 g

2,5 g artificial bird
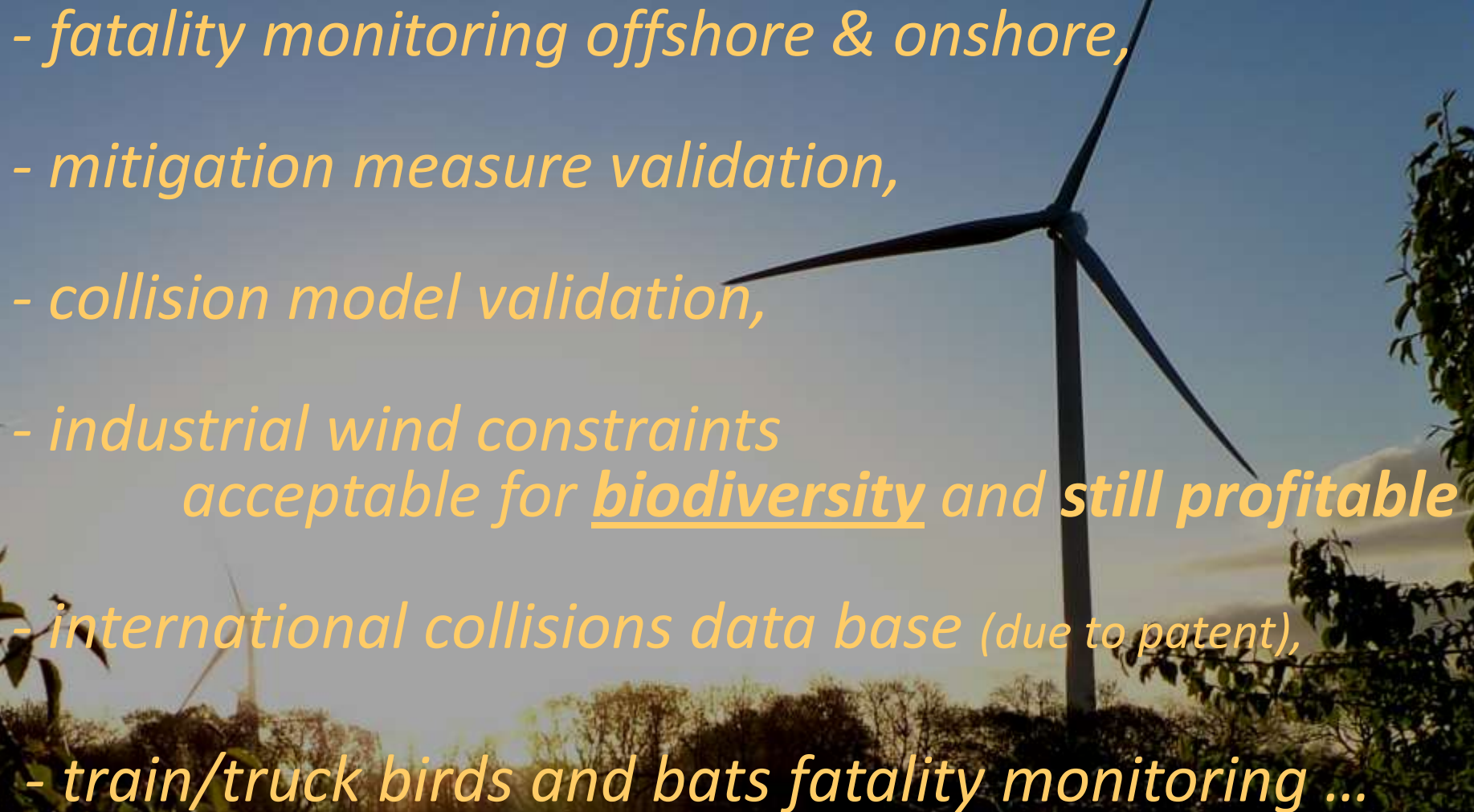
>> First long term test

Ground fatality research methodology

=> 1 windturbine （western France）

=> 1 ID-Stat collecting 24/7 since May, 3^d 2011

=> daily ground fatality searches

>> ID-Stat applications

- fatality monitoring offshore & onshore,

- mitigation measure validation,

- collision model validation,

- industrial wind constraints
    *acceptable for **biodiversity** and **still profitable***

- international collisions data base (due to patent),

- train/truck birds and bats fatality monitoring ...

Thank's, Multumesc, Danke, Grazie,

Obligado, Gracias, Takk …

for your attention ☺

ID Stat

aminot@eneria.com
Tel : 00 33 (0)1 69 80 34 73

bertrand.delprat@calidris.fr
Cell : 00 33 (0)6 25 57 32 15