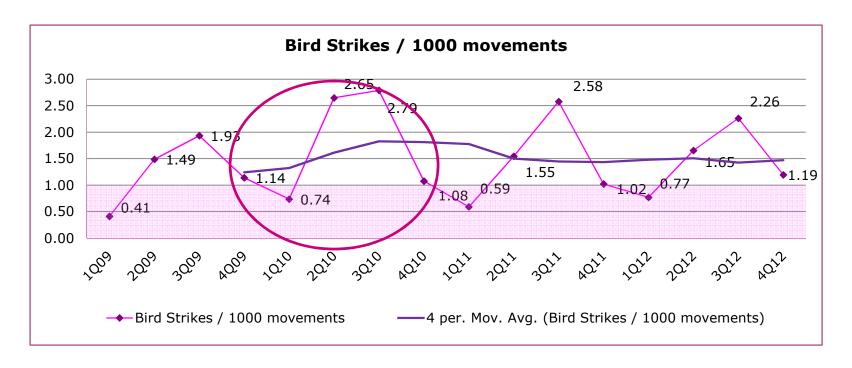
#### Wildlife Strike Hazard Reduction

# Wizz-BML experience auditing 35 European Airports

Polish BC meeting, Modlin, 16<sup>th</sup> December 2013



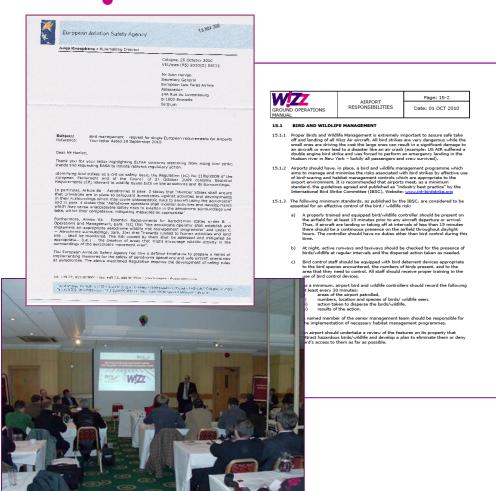
#### Introduction



- The bird strike rate rose above the tolerable level in 2009
- Further bird strike rate increase measured in 2010
- Understood, we shall "THINK OUTSIDE THE BOX"

#### Risk mitigation – wzz action plan

- Lobbying at EASA
- Make the IBSC Standards legal obligation
- Promote IBSC standards
- Check compliance to IBSC standards
- Follow-up compliance to IBSC standards
- New pilot procedures
- Active post-strike procedures
- Involvement of EASA and NAAs





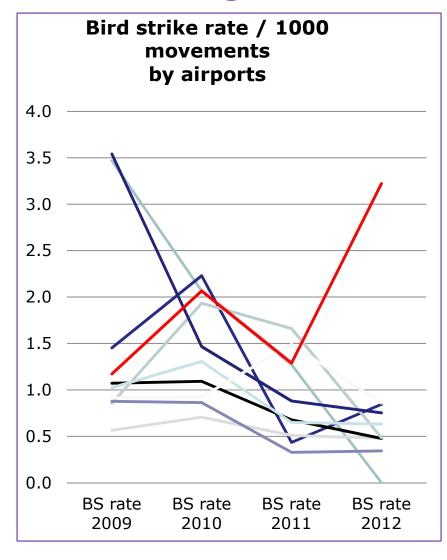
The safety manager's experience after 35 airports checked

- Bird strike hazard is significant over Europe, mainly due to:
  - Lack of basic understanding of basics on effective bird management
  - Reliance on static/automatic equipment and/or falconry
  - Inadequate use of active bird control
  - Very low reporting and identification rate
  - No safety measure and target
  - Little evidence of regulatory oversight
  - The professional ornithologist's experience will follow





#### Significant result achieved



- 1. Bird strike rate reduction at airport is manageable: all airports improved their active bird control system showed improvement
- 2. One or two professional checks leaded to the significant result
- 3. Little regulatory oversight was experienced at most of the countries visited
- 4. We believe, professional regulatory oversight can lead to significant change in the industry
- 5. Wizz & BML are ready to disseminate this information to any forum of EASA or NAA
- 6. We kindly ask the Polish BC's support in mitigation of this significant safety hazard

#### New EASA Requirements for Aerodromes

#### ADR-OPS.B.020 — Wildlife strike hazard reduction

- (a) The aerodrome operator shall:
- (1) assess the wildlife hazard on, and in the surrounding, of the aerodrome;
- (2) establish means and procedures to minimize the risk of ollisions between wildlife and aircraft;
- (3) notify the competent authority if a wildlife assistment indicates conditions in the surroundings of the aerodrome conductive to a wildlife hazard problem.

#### AMC-ADR-OPS.B.020 — Wildlife Strike Hazard Reduction

- (a) The aerodrome operator should
- (1) participate in the national with the hazard reduction programme;
- (2) record and report to the tent authority wildlife strikes to aircraft;
- (3) ensure that wildlife transfer assessments are made by competent personnel;
- (4) establish, implement and maintain a wildlife risk management programme.
- GM1-ADR-OP B 020 Wildlife Risk Assessment
- GM2-AR-QPS.B.020 Wildlife Risk Management Program
- GM3-OPS.B.020 Wildlife training
- GLADR-OPS.B.020 Recording and reporting of wildlife strikes and looke yed wildlife

#### Possible fields of cooperation

- Sharing of bird strike data
- NAA safety targets for airports on bird strikes
- More focus on wildlife hazard by local runway safety teams
- Joint bird management standard checks
- Sharing of standard check checklists and reports
- Professional trainings to Airport specialists and NAA inspectors on wide life management
- Preparation programmes for compliance to EASA
   ADR regulation it takes time!
  - Joint introductory forums
  - Trainings
  - Guidance materials

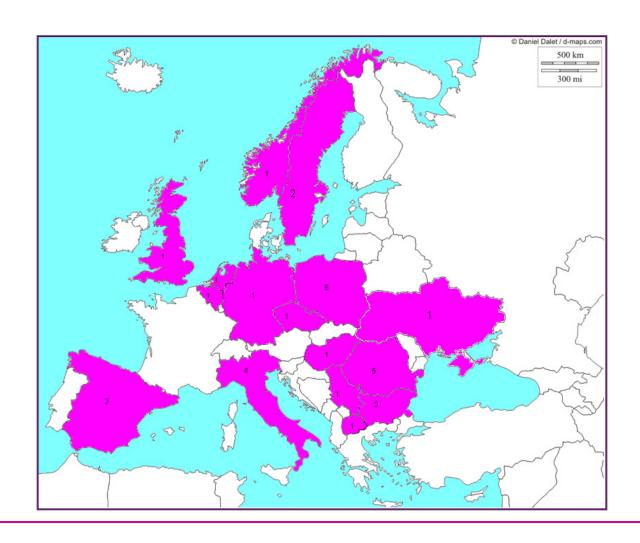


#### Assessing the WIII risk

- The project used ICAO recommended safety indicator of 1 birdstrike per 1000 aircraft movements
- ICAO 'On airport' definition used = under 200 feet on approach and 500 feet on climb out
- 10 airports well above the rate
- The rates ranged between 10.7 to 0.7 for the 30 airports selected to date
- Note: this figure was the figure calculated for Wizz Air and was NOT the airport figure



#### Wizz Air Project





#### Polish Standards Checks

- 6 Airports
- 6 Initial visits between September 2010 and September 2011 resulting in 83 recommendations (Station average 14)
- 4 Re-visits in 2012 resulting in 66 recommendations (Station average 13)



# Effective Non-lethal Control Methods

#### **Pyrotechnics**

- >80m range
- 12 gauge
- manually operated
- Distress Calls
- correct distress calls
- manually operated
- correct procedure







#### Lethal Control Methods

# Directive 2009/147/ec of the European Parliament and of the Council of 30th November 2009 on the Conservation of Wild Birds

 Article 9 section 1 (a) allows member states to derogate where there is no other satisfactory solution; reasons for derogation include 'in the interests of air safety'





#### Birdstrike Remains Identification

- DNA Analysis
- Microscopic Feather Analysis
- Whole, Part Bird & Feather Analysis

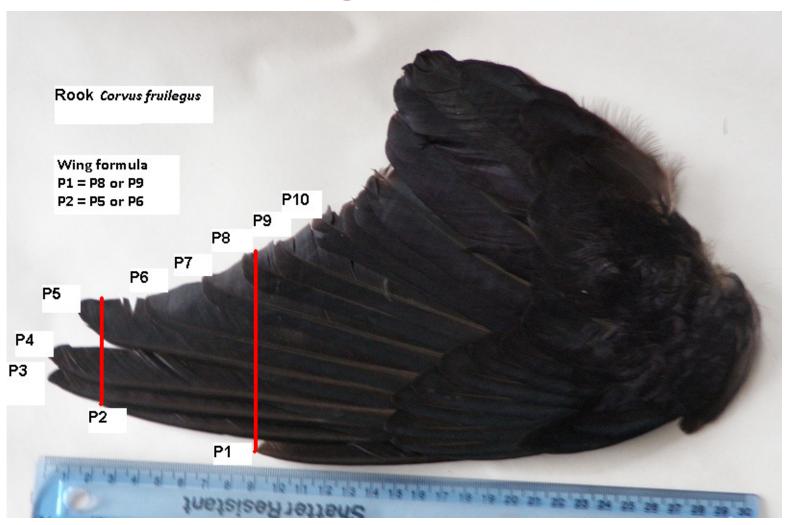






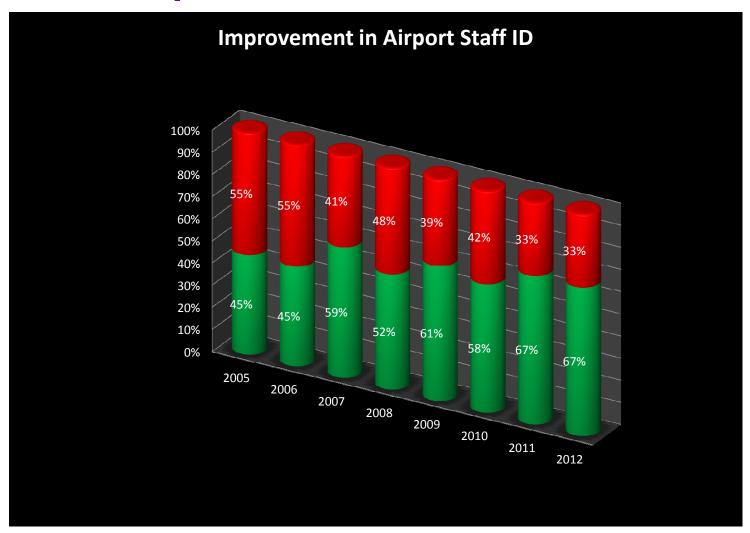


## Photographic ID





## Airport ID





### Any questions?

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