


**19-20 November 2014**  
**Dresden - Germany**


  
 European Commission

## Performing OTS Checks and producing 'control report'


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**DG Joint Research Centre**



*Evidence-based scientific and technical support*  
*Cooperation with policy Directorates-General*  
*Sharing its know-how with the Member States*


[www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu)


## On-The-Spot checks


  
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Objectives unchanged: check all conditions for which aid is granted

But conditions constantly evolve

Technology is also evolving




The Early Years	The Crisis Years	The McNamara Reform 1992	Agenda 2000	The Fischer Reform 2003	CAP Health Check 2009	CAP 2020
Food security	Over production	Reduced surpluses	Deepening the reform process	Market orientation	Reinforcing 2003 Reform	Viable food production
Improving productivity	Exploding expenditure	Environment	Competitiveness	Consumer concerns	New challenges	Sustainable management of natural resources and climate action
Market-stabilisation	International friction	Income stabilisation	Rural development	Rural Development	Risk management	Balanced territorial development
Product support	Structural measures	Budget stabilisation	WTO compatibility	Simplification		



2000      2014  
 GSD 14,5m    GSD 8m    GSD 6,5m    GSD 1m    GSD 0,6m    GSD 0,5m

→ OTS checks methods constantly need update if not upgrade

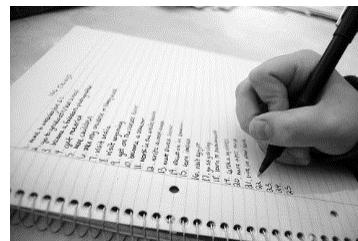

  
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## What to check?



### New CAP 'checking list'

- Area
- Lengths
- Different land use / land cover aspects
  - Eligibility of land ('minimum activity')
- Crop type
  - Voluntary Coupled Support
  - Diversification
  - Permanent grassland
  - 'Exemption thresholds'
- Landscape feature types
  - Traditional cropping practices
  - GAEC
  - EFA
- Tree counting
- Land maintenance
  - Erosion, land abandonment, hedge-tree removal ...

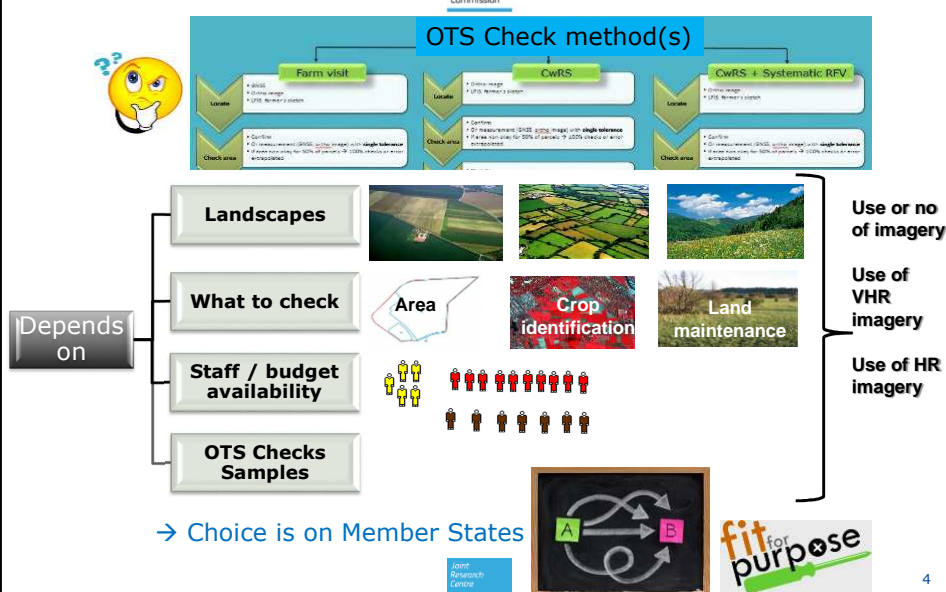


Ensure an exhaustive review and description of elements to check

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## Definition of OTS check method(s)



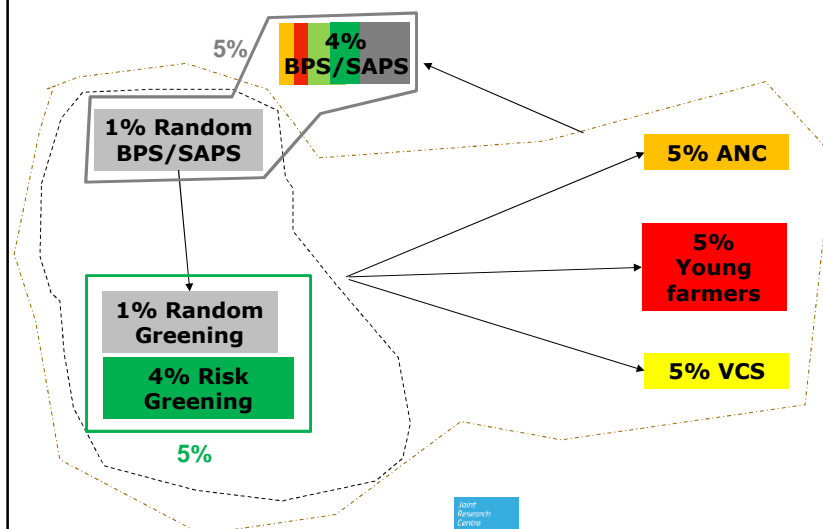
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## Sample selection



Substantial changes in samples selection (art. 30 to 34 of Reg. EU 809/2014)



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## Sample selection

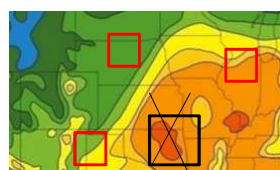
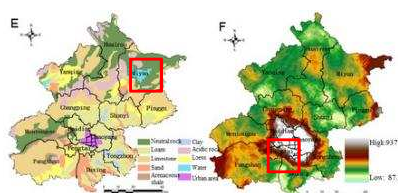


Please Note

Several sites to limit possible bias

Please Note

Create risk density maps



Then, Place CwRS zones

advice

In CwRS risk zone: select all farmers: Better representativeness, limit bias

Please Note

Risk factors: not always the amount a farmer gets  
But more the risk to be overpaid as a result of wrong claim /  
outdated info in LPIS

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## Prepare the OTS checks



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## Prepare the OTS checks



Please Note

Important role of geospatial application (see session)

Please Note

Essential step of image processing

The ratio of the ortho-image pixel size to the GSD of the raw image is smaller than 1.3

The resampling of the ortho-image is applied correctly (**DEM quality**)

Absence of artifacts caused by the pan-sharpening

Absence of local artifacts caused by the ortho-rectification

Absence of saturation of the histogram and poor bit depth

Absence of artefacts revealed by the mosaicking (geometric discrepancies visible at seam lines; heterogeneous feature condition across tiles)

From LPIS QA experience

See JRC guidelines for ortho-rectification

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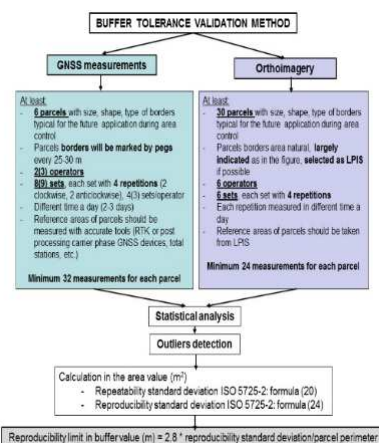
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## Prepare the OTS checks



*advice*

### Validate area measurement tools



Determine the Inherent tool error (accuracy)



To be used in 'real conditions'



Single buffer tolerance value

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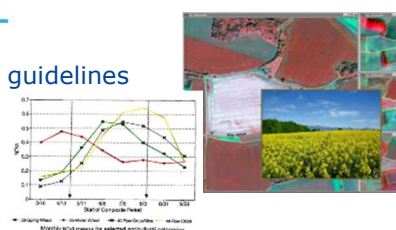
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## Prepare the OTS checks



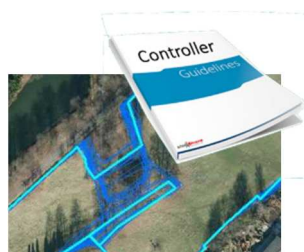
*advice*

### Create image interpretation guidelines (with field example)



Essential role of clear features' definition

Essential role of definition of common measurement rules



Same area on field and on image

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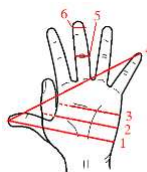
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## Perform checks



### Use appropriate tools

Please  
Note

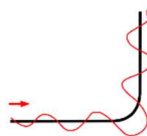


### Use tools appropriately

Please  
Note

Same conditions, settings as validated

"Stay on the line"  
But define your line ...



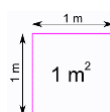
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## Perform checks



- Use common rules  
→ diagnosis CwRS and diagnosis field should be identical
- Measurements only if needed
- Use of **Single buffer Tolerance**
- Possibility to limit to **50% of parcels**  
→ Results **extended to 100%**
- Have imagery on field
- Ensure good timing of RFV
- Have digital OTSC manual on field (with examples)



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## Produce OTS check REPORT

**"In God we trust.  
All others must  
bring data".**

W. Edwards Deming



Document (justify) and record every diagnosis

- Who, when, where
- Measurement conditions (N.B.: same as validation)
- Take pictures

## Digital format reporting

- Scrolling menu, check list
- Common between CwRS and Field check (N.B. Mutual training field and screen)



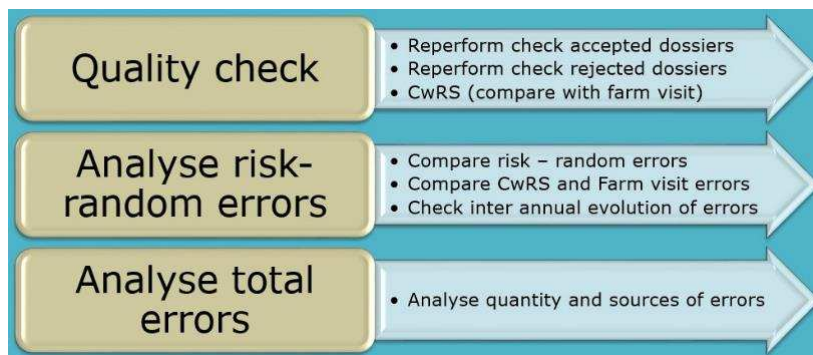
Have a reporting section dedicated to follow-up

- LPIS, EFA layers needs for verification



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## Check and Analysis of OTS checks results



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## Take action for the following year




**OTS check campaign**

- Adapt sample selection
- Adapt OTS check method
- Adapt tools
- Up dated LPIS-EFA Up dated application form

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## conclusions

  
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- Take time to define your OTS checks methods
- Define clear and common rules
- Choose and use the appropriate tool
- Use the tool appropriately
- Document and record everything
- Analyse results and take actions for following campaign

**It takes less time**  
*to do things right*  
*than to explain why*  
*you did it wrong.*

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## Need for support ?



Alerting systems when something new?

Use of RPAS as support to OTSC checks?

Photo used as evidence by farmers?  
Or others (sensors from precision farming)?

Re-launch of "CwRS Quality Check"?



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Why Who  
Disagree Constraint  
Advantage  
Clarification Opinion  
Question  
Agree

Thank you



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