



Earth Observation & agriculture market monitoring / outlook

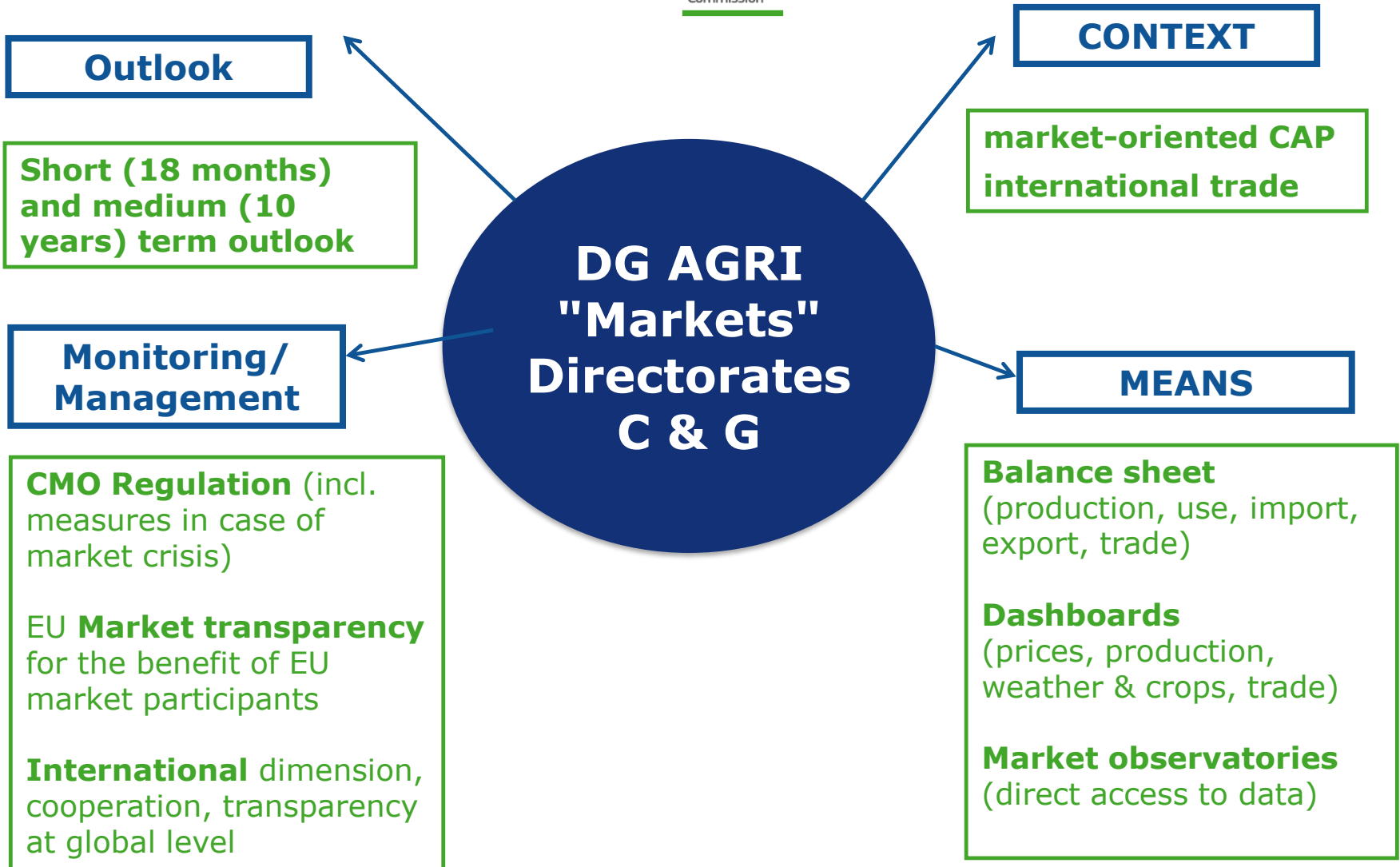
**Copernicus and Agriculture
DG GROW/DG AGRI joint seminar**

5 February 2018

Mohamed EL AYDAM

Mohamed.El-Aydam@ec.europa.eu

AGRI G4 – arable crops & olive oil





European Commission

Market outlook?

Example : (cereals) balance sheet

EU MARKET		CEREALS SUPPLY & DEMAND									EU MARKET
LAST UPDATED: 28/09/2017		2017/18 fc									1000 metric tonnes
	Common wheat	Barley	Durum wheat	Maize	Rye	Sorghum	Oats	Triticale	Others	TOTAL CEREALS	
Beginning stocks											
Private										-	
Intervention										-	
Beginning stocks	10 082	5 787	2 545	15 569	728	160	344	1 685	1 557	38 457	
Usable production	140 380	58 114	9 239	59 132	7 253	674	8 254	11 265	4 244	298 554	
Area (000 ha)	23 508	12 172	2 670	8 460	2 040	125	2 677	2 740	1 540	56 042	
<i>Average yield (t/ha)</i>	5.9	4.8	3.5	7.0	3.6	5.4	3.1	4.1	2.7	5.3	
Imports (from third countries)	3 310	600	1 500	15 000	75	163	5	0	154	20 807	
TOTAL SUPPLY	153 772	64 501	13 285	89 701	8 056	996	8 604	12 949	5 955	357 819	
Domestic uses											
Human consumption	15 000	200	2 000	1 000	2 000	100	1 000	200	200	22 500	
Seed	4 828	2 154	499	411	420	26	446	541	65	9 391	
Industrial uses	10 772	9 089	95	11 667	1 666	-	102	446	102	33 937	
of which alcohol										14 213	
of which bioethanol/biofuel	4 685	437	-	6 200	953	-	-	344	14	12 613	
Animal feed	51 800	39 200	800	55 300	2 600	690	6 200	10 900	4 500	171 990	
Losses	900	400	40	600	70	-	70	90	40	2 210	
Total domestic uses	116 290	51 206	9 496	12 843	7 814	872	7 906	12 028	4 729	285 214	
Exports (to third countries)	27 000	7 000	1 400	2 000	155	3	194	2	8	37 762	
TOTAL USE	143 290	58 206	10 896	74 843	7 969	875	8 100	12 030	4 737	322 976	
Final stocks	10 482	6 295	2 789	14 858	67	122	444	919	1 217	36 945	
Change in stocks**	401	508	-126	-711	-641	-38	100	-766	-340	-1 614	
Change in public stocks	-	-	-	-	-	-	-	-	-	-	
Stocks at the end of August '17	127 226	53 872	9 888	11 053	6 874	680	7 224	11 001	5 012	232 830	

Marketing year: from July to June
* At the end of the marketing year

- Supply:**
- JRC (yield forecast)
 - Member States notification (ESTAT)

- Trade:**
- MS notifications (COMEXT)
 - Customs notifications (TAXUD)

- Stocks?** (residue)
- Uses?** (economic models, stakeholders)



European Commission

Market monitoring ?

Example : (cereals) dashboard

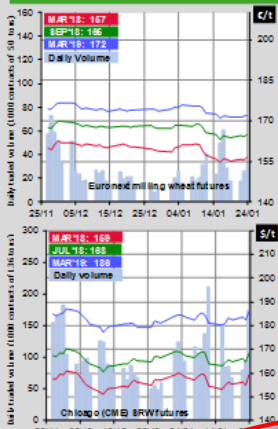
DG AGRI DASHBOARD: CEREALS

Last update: 25.01.2018

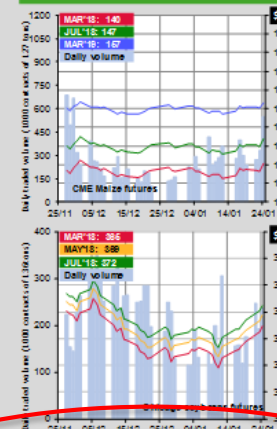
Prices

Export prices FOB		24 Jan 2018		m/m variation		y/y variation	
		€/t	\$/t	€/t	\$/t	€/t	\$/t
wheat	US Gulf (SRW)	150	185	▼-2%	▲2%	▼-14%	▼-1%
	US Gulf (HRW)	184	227	▼-2%	▲2%	▼-5%	▲9%
	EU Rouen (grade 1)	159	197	▼-1%	▲4%	▼-11%	▲3%
durum wheat	CA St Lawrence (CWAD)	231	285	▼-6%	▼-2%	▼-18%	▼-5%
	EU Port-la-Nouvelle	221	272	▼-6%	▼-2%	▼-8%	▲6%
barley	Black sea (feed)	159	196	▼-2%	▲2%	▲4%	▲20%
	EU Rouen (feed)	160	198	▲3%	▲8%	▲6%	▲22%
maize	US Gulf (3Y)	132	164	▼-1%	▲3%	▼-18%	▼-5%
	EU Bordeaux	153	189	▼-2%	▲2%	▼-13%	0%
soybeans	US Gulf (2Y)	309	381	▼-1%	▲4%	▼-19%	▼-6%

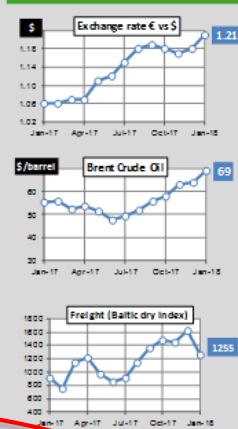
EU (milling) & US (SRW) wheat futures - 60 days



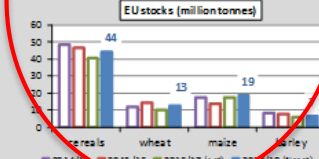
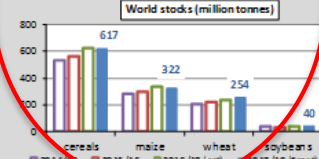
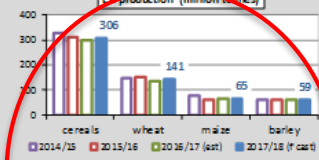
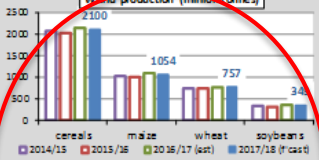
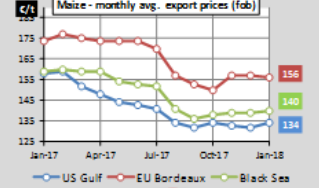
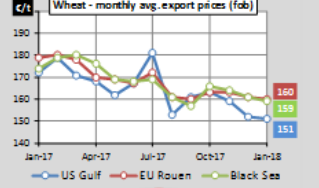
CME US maize & soybeans futures - 60 days



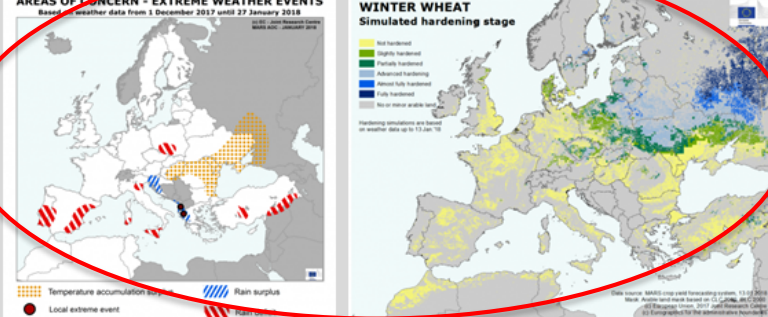
Monthly avg. currency - oil - freight



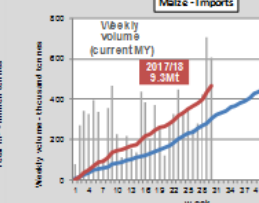
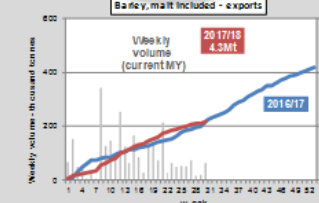
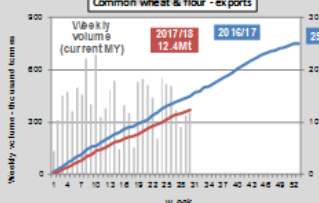
Production & Stocks



Weather & crops conditions



Trade



Prices

Supply

Trade



JRC (MARS) support

DG AGRI market monitoring/outlook

- **Regular bulletins** (monthly) for the main arable crops
- **Products**
 - *yield forecast (agromet models + remote sensing+expertise)
 - *maps atlas
 - *agro-weather analysis & weather forecast
 - *crop indicators (biomass accumulation, crop development stage...)
 - *frost kill/hardening
- **Pasture** (index of productivity at regional level) & **rice** (monitoring and yield forecast)
- **MARS viewer** (direct use by DG AGRI for near-real time graphs and maps)

Conclusion (1/2)

DG AGRI market monitoring/outlook

- DG AGRI supported by JRC (MARS) in monitoring, management and outlook missions.
- Main support in the format of (1) bulletins for arable crops with qualitative (RS) and quantitative (yield) information (supply side) and (2) internet viewer.
- Recent development: pastures (productivity) and rice (monitoring & yield forecast).
- Near future developments planned: soybeans, peas and beans.



Conclusion (2/2)

How EO could further help in

- Crop monitoring? (extend to fruit & olive trees, wine yards)
- Quantitative assessment? (pasture & fodder; impact due to adverse weather conditions)
- "Market" quality? (sugar, protein, oil content; diseases; milling/feed wheat;...)
- Information update? (background layers: crop calendar, crop rotation, land use change...)
- Crop progress reporting? (harvest and sowings)