



FMD control in the European neighbourhood – priorities/actions of the EuFMD Commission to reduce risk to member states

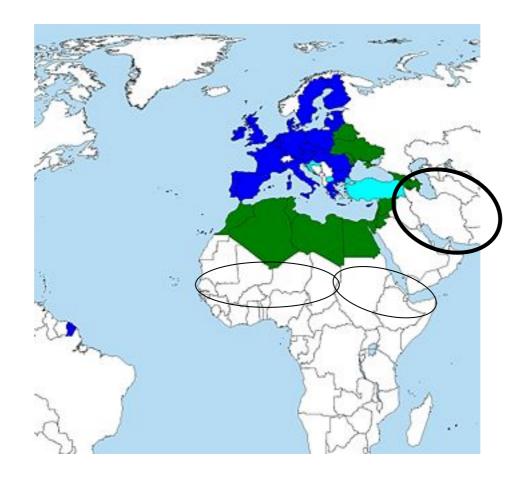
Keith Sumption Secretary, European FMD Control Commission (EuFMD)

FAO, Rome





The European neighborhood



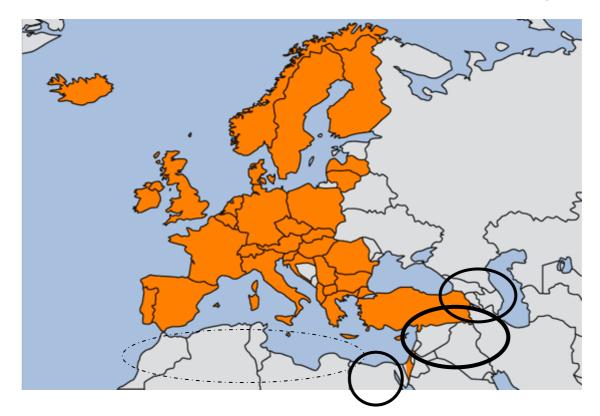
wider group of countries in connection with the EU

and which interface with major FMDV reservoirs in West Eurasia and Africa





Current FMD status in the European neighborhood



EuFMD: 35 member states of which 26 EU+ 9 others

Two member states (Turkey, Israel)

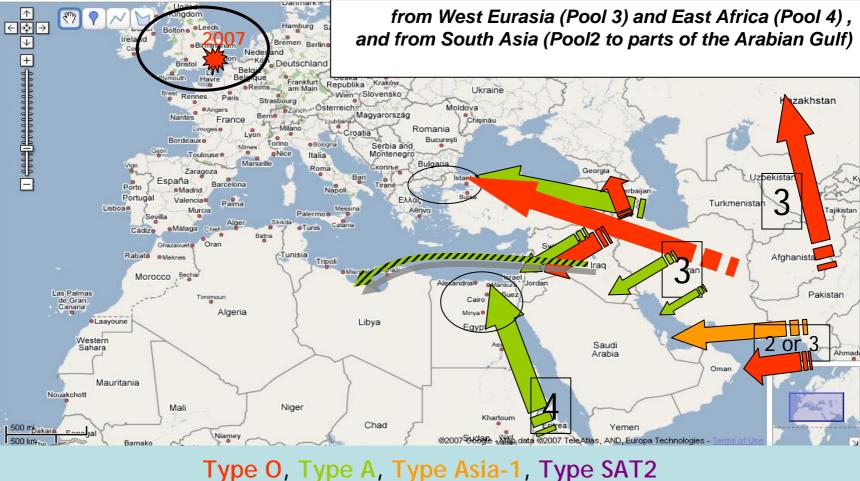
+14 neighboring countries are NOT free of FMD





Current status: EU27: last outbreaks in 2007

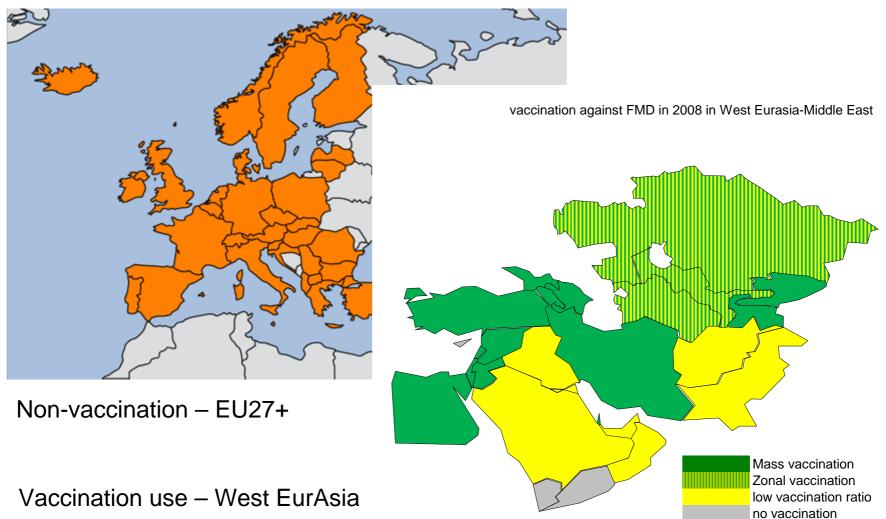
but continued incursions of FMDV to the European neighborhood Past 3 years (2006-9)







FMD Vaccination policy:



TransBoundary Animal movements - West Eurasia Output of working group – Shiraz 2008

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Eye alt 524

38°38'06.55" N 60°49'49.42" E





EUFMD STRATEGY : Priorities for action Second 4 year Plan : 2009-2013 Adopted - 38th Session

- 1. Risk reduction -
 - Turkish neighbourhood/West EurAsia
- 2. Viral surveillance for Vaccine bank prioritization.
- 3. Global FMD risk information and control program progress monitoring across 7 virus pools.
- 4. FMD Training program
 - European/EuFMD Member States 4 year rolling program.
- 5. Technical networking and applied research- Euro-Med, West Eurasia region
 - focus on vaccine selection, vaccination performance, FMD risk, surveillance and survey design.





Viral surveillance for Vaccine bank prioritization. re-assessment every 6 months - *new risk assessment/prioritisation procedures (2010)*

FMD RISK Matrix (Provisional):

risk to European neighbourhood (EuFMD countries)

Priority setting matrix, where HIGH MEDIUM and LOW are used in similar way to past WRL recommendations

Pool	Name	RRI*	Rank	Predominant FMDV antigenic types circulating in 2009	Minor antigenic types known/suspected to be circulating
3	West Eur- Asia	100	1	→HIGH priority	HIGH
1	East Asia	18.8	2	MEDIUM	LOW
4	West Africa	13.7	3	MEDIUM	LOW
5	East Africa	9.9	4	MEDIUM	LOW
2	South Asia	3.6	5	LOW	LOW
7	South America	0.2	6	LOW?	LOW
6	Southern Africa	0.1	7	LOW?	LOW

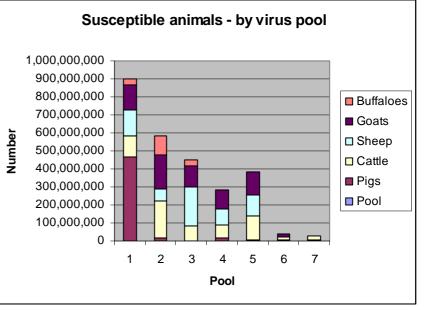




Risk assessment based on FMD threats from current strains in circulation together with likelihood of entry from the 7 virus pools : 1st assessment for EuFMD Executive March 2010

•R2 : relative numbers of arriving passengers at EU airports (from http://epp.eurostat.ec.europa.eu/statistics explained/index.php/Air_passenger_transport#World_travel)







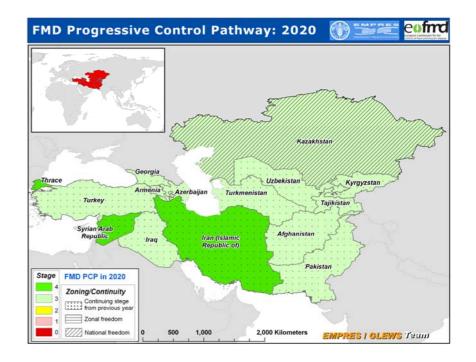


West EurAsia Roadmap for FMD Control: Vision : *freedom from clinical disease by 2020*

Regional cooperation among Eurasian countries

for the progressive control of FMD through public and private partnerships

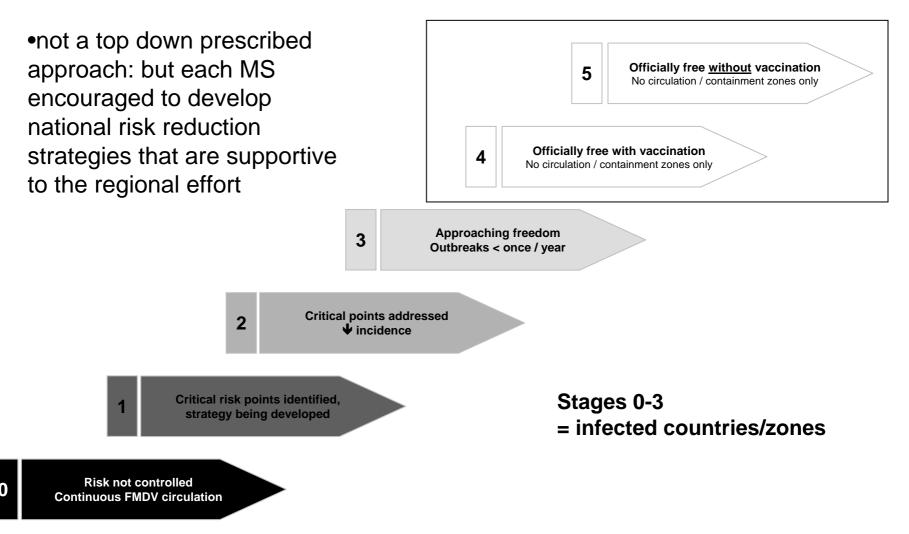
leading towards freedom of clinical disease by 2020 for regional economic development, food security, and poverty alleviation.







FAO Progressive control pathway - risk reduction approach





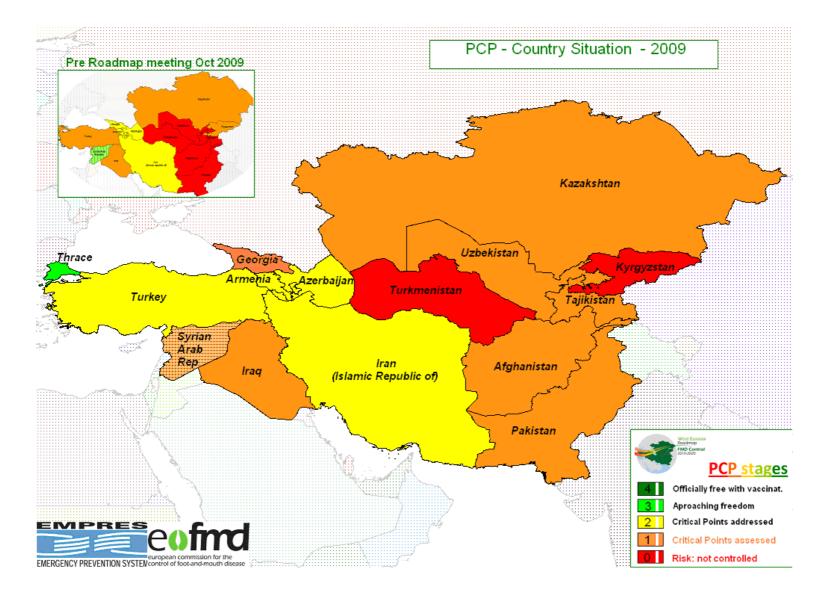


Assessment of PCP Stages

- 2008: self-assessment by countries with peer review (FAO)
- 2009 (Istnabul):
- upon submission of evidence of actions required at each stage
- presentation/review at Regional Meeting
- 2 month period post-Meeting to supply information, if required
- 2009: Roadmap progress *on track*











Supporting long term FMD control in "West EurAsia"

The EUFMD, 38th Session :

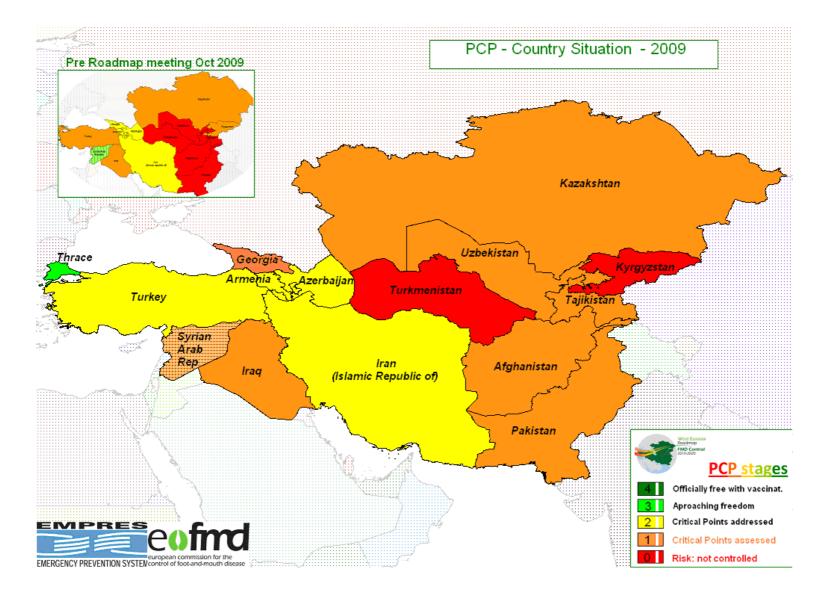
- supports the vision for the West Eurasian region
 - to become free of clinical FMD by 2020;
- commits itself, beginning with the EuFMD Strategic Plan 2009-13, to a long to term role in promoting and supporting the implementation of the Regional Roadmap
 - with the aim of improving FMD control through progressive application of risk based control measures;

- promotes and where required supports routine FMD surveillance

- to monitor progress at national and regional level in FMD control across the West EurAsia region, working with the RAHCs of FAO/OIE;
- commits to organize annual progress monitoring meetings
 - in co-ordination with other international agencies and donors, an annual meeting to review progress along the West EurAsia Roadmap;











West EurAsia Roadmap- country Stage position following the Progress Review of 2009, and expected progression to 2020

FINAL assessment of country Stage position for 2009, together with the expected progression to 2020. (Chart2)

		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Comment
	Kazakh														
	Kyrgyz		new												FMD seromonitoring system therefo assumed 2, 3 and 5 years to move
	Tajik		new												progress to stage 1
	Turkmen														
	Uzbek		new												progress to stage 1
	AFG		new												progress to stage 1
sia	IRN														
Eurasia	РАК		new												2009: progress to stage 1. Progress
st E	TURK		new												progress to stage 2
West	Thrace (TR)			new											dossier to OIE in 2010
	added zones (TR)														
	Syria		new												Syria considered to be in Stage 1 in reporting of seromonitoring expected
	Iraq														
	Armenia														
	Azerbaijan														
	Georgia	pending	new												2009 : re-assessed as Stage 1, exp Stage 2 in 2011





Advisory Group -West Eurasia Roadmap

- to advise on issues preventing progress of the Roadmap
- to assist resolving problems
- to improve ownership and enable direction by countries of the region
- structure coherent with GfTADS agreement





Proposed Advisory group structure 7 members

- 4 members from international organisations (1 member each):
 - FAO, OIE, EC, EuFMD
- 3 from the region:
 - President, elected at the annual meeting
 - represents the Roadmap at international meetings, EuFMD Executive, etc
 - two technical representatives
 - laboratory network
 - monitoring and surveillance network
- Observer: ECO





Procedures adopted at Istanbul 2009 Roadmap Meeting

- PCP assessment
- Advisory group (7):
 - 4 members from international organisations (1 member each):
 - FAO, OIE, EC, EuFMD
 - election of the Roadmap President (Dr Askaroglu, Turkey)
 - election of 2 technical representatives
 - (Dr Bulut, Lab Network, and Dr Otarod, Epidemiology Network)
- duration of office 1 year
- proposed members had at least one supporter from the countries present





Regional FMD risk profile

	Source for FMD in Turkey (2006-9)	Source for other neighbours	Regional significance
Turkey		→?TCC (Geo/Arm)	→Balkans/Europe
Iran	Most likely source A Iran -05 (2005-) O Panasia II	→TCC (Arm, Azb) →Gulf (A Iran 05) →Iraq	Type A & O amplification and onward to Turkey and mid-east
TransCaucasus Co. (TCC)	No evidence	Probable intra-TCC	
Syria	? O PanAsia II (Oct 2006)	\rightarrow ?? other ME in 2009?	???
Iraq	Too little past surveillance to prove	→?? other ME in 2009 A Iran 05 (BAR-08) Syria/Lebanon/Israel/	Conduit to ME/Israel
Pakistan	Via Iran	 → Iran (O Panasia II 2005; ? 2009) Type A divergence? → Central Asia 	Reservoir : Asia-1 Probably main source for type A emergence





	Interest/Request for FMD support	Objectives of requested support	PCP objective
Iran	High/yes Create FMD control zone along western border Technical guidance on I&R and movement control systems Create functional early warning system - includes rapid typing at regionalized labs, twinning NRL with European lab Twinning epi-unit with European centre		Achieve Progress in Stage 2
Iraq	High/yes	Create ""FMD free zone in northern Iraq" - Strengthened system to monitor FMD, increase impact of vaccination programs	In northern zones, achieve Phase 1, progress Stage 2
Syria	Moderate-high/no formal request	Informal contacts request lab support	Syria is probably in Stage 1 although Claims Stage 3. Following sero-survey in 2009 follow-on program can be proposed.
Trans- Caucasus	Low- Georgia High- Armenia Low-Moderate -AZB	TCC request for continuation presented at 38 th Session. Mainly continuation of current bufer zone support with technical guidance/support	Progress Stage 2 (reduce circulation) towards Stage 3.





West Eurasia Budget implications - MTF/INT/003/EC

circa 50% of total budget for FMD actions (Note total agreement 2009-12, of 8m€ =circa 11.7 m US\$)

	Recent	Outline 2 year \$	Outline 3 year \$	
	2005-9	2010-11	2010-12	
Turkey	200,000			
TCC	2,700,000	1,700,000	2,300,000.00	
Iran	761,000	900,000	1,200,000.00	
Iraq		200,000	270,000.00	
Syria	90,000	200,000	270,000.00	
Lebanon		100,000	140,000.00	
Egypt		250,000	350,000.00	
Regional- lab		400,000	600,000.00	
Regional- epi		250,000	375,000.00	
Total	3,551,000	4,000,000	5,505,000	





Specific actions to be discussed at 79th Executive: Stockholm, 16-17th March

- Trans-Caucasus: Georgia, Armenia, Azerbaijan
 - reduction in support for buffer zone, emphasis on impact of national actions (PCP Stage 2)
- Iran
 - greater emphasis on FMD control in western borders (with Turkey)
 - and early detection of FMD threats (currently O Ind 2001 incursion)
 - progress in Stage 2 (impact/reduced incidence)
- West Eurasia Lab network:
 - linking European NRLs and NRLs in region for threat detection/service upgrading
- African proximity threat monitoring: supporting risk asessment from Eastern/Western Africa (involves RAHC Nairobi and Bamako)





Conclusions

- the West Eurasia common border areas (with Turkey) are extremely important for maintaining FMD
- the West Eurasia Roadmap has already had significant impact in harmonising FMD monitoring and control actions
- movement control weak need for animal ID systems
- regular sero-surveillance to monitor progress
- support from EuFMD/EC highly influential for monitoring programs and co-ordination





Acknowledgements

- DG-SANCO/European Commission
- Member states of EUFMD
- Peter de Leeuw, past-President of the EuFMD Executive Committee, Ulrich Herzog, current President
- Aldo Dekker: EuFMD Research group
- Carsten Poetzsch (EuFMD), Giancarlo Ferrari (FAO)
- FAO World Reference Laboratory, Pirbright
- FMD Institute, Ankara
- OIE (Gideon Bruckner, Nikola Belev)





Brief country profiles

Information/slides mainly from country presentations to the Shiraz meeting, 2008











Outlook -FMD control in Turkey

- continued support from EU another 4 years FMD vaccination
- high quality vaccines, coverage all large and small ruminants twice per year
- problems:
 - lack of effective quaratines around outbreaks
 - gaps in coverage especially unvaccinated calves
 - lack of booster vaccination
 - expect FMD to continue in breeding areas (high risk eastern areas)





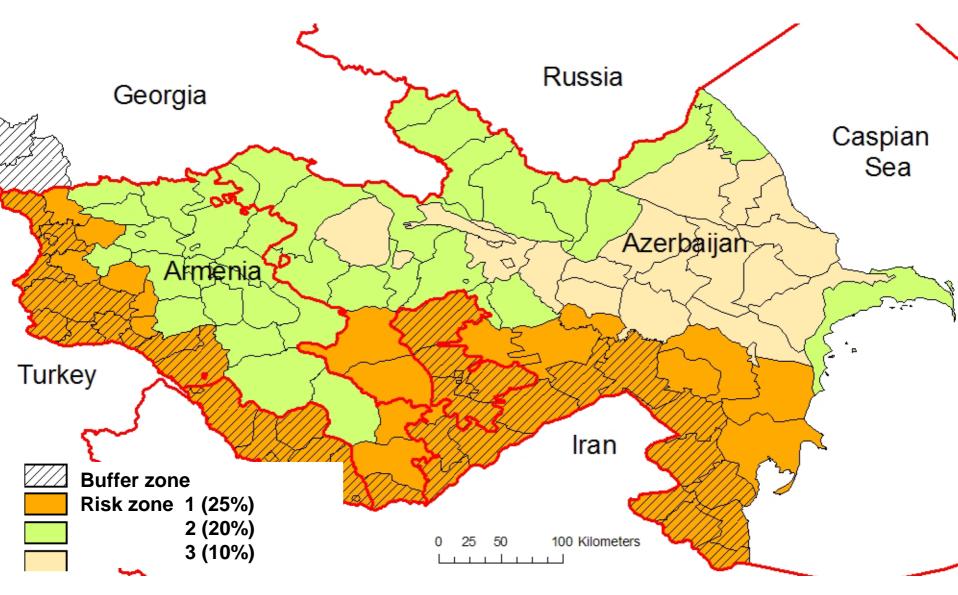
TransCaucasus 2009: Georgia, Armenia, Azerbaijan







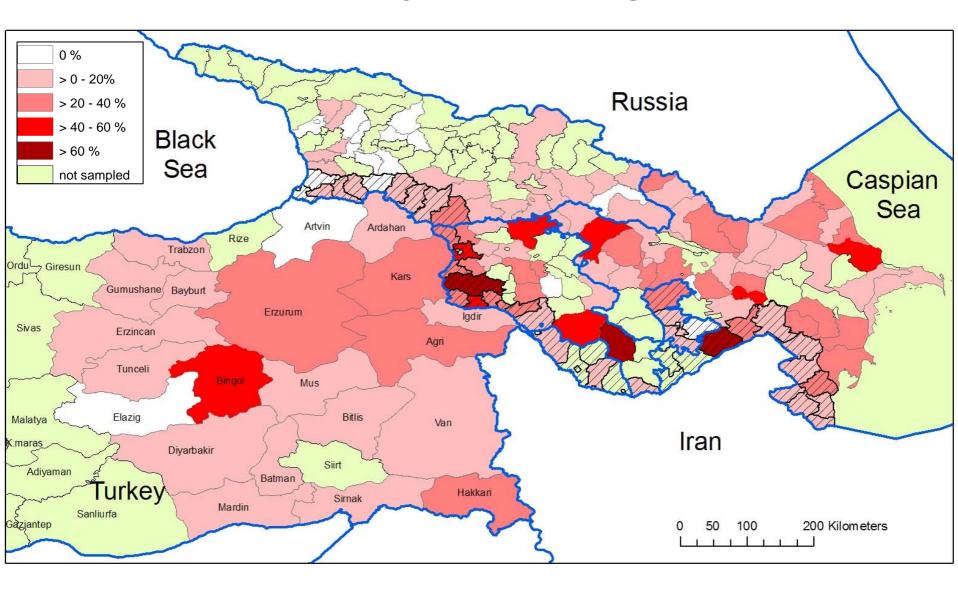
Risk zones and vaccination buffer zone







NSP antibody results - regional -







Outlook

- vaccination programmes in Armenia and Azerbaijan set to continue 2010-2011
- increased movements across borders (e.g. into Azerbaijan)
- buffer zone is NOT effective infection passes through
- more effort to target /control high risk points
- to reduce risk , need to strengthen control in high risk areas of Turkey and Iran





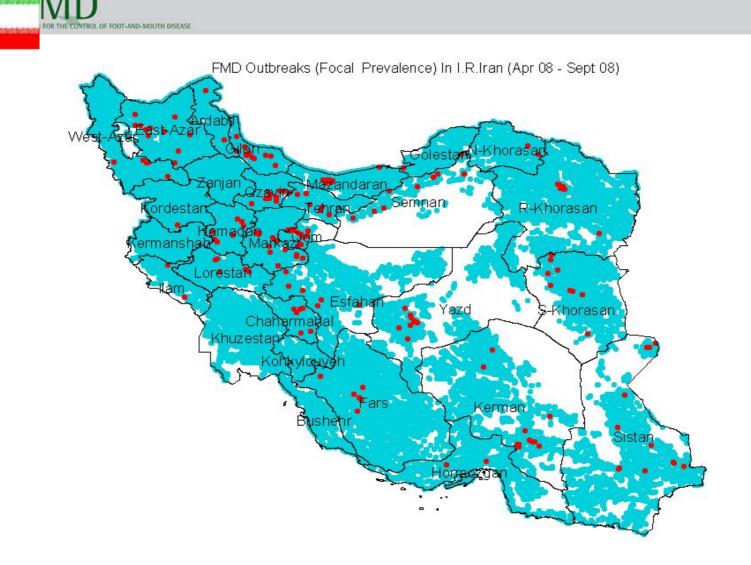
I.R.Iran

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Regional meeting on Foot-and-Mouth Disease to develop a long term regional control strategy (Regional Roadmap for West Eurasia) Shiraz, Islamic Republic of Iran 9 - 13 November 2008



- Iran is 1,648,000 square kilometers in surface
- Around 7,744 kilometers of ground and marine borders with Turkmenistan, Azerbaijan and Armenia in the north, Afghanistan and Pakistan in the east and Turkey and Iraq in the west
- •Administratively Iran divided to 30 provinces.



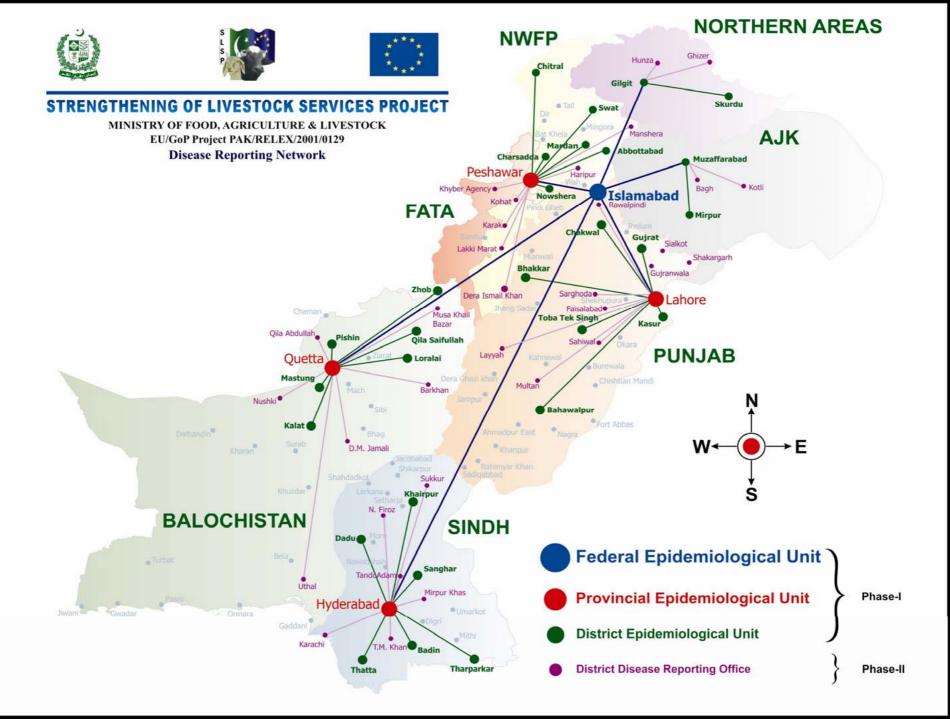
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Pakistan - 60 million large ruminants + > 80 million small ruminantsregional giant in livestock Population

> - very low use of FMD vaccine --regional reservoir serotype Asia-1 -

	Cattle	Buffalo	Sheep	Goat	Camel	(Million Heads)
Pakistan (2006) Pakistan (2008)	29.5 31.8	27.3 29.0	26.5 27.1	53.8 56.7	0.9 1.0	
			Per cent	distribut	ion	
NWFP Punjab	49	20 65	7 24		18 22	7
Sindh Balochistan		23 8	27 1	15 <mark>48</mark>	23 22	30 41

Livestock Census (2006)















Issues/outlook

- A Iran 05 (BAR-08) epidemic in early 2009 (source? Iran?)
- limited vaccination program in 2008-9: large gaps, led to major epidemics
- Baghdad limited co-operation with autonomous regions in the north on disease control
- virus typing: difficulties to submit to WRL
- no samples submitted from nothern region
- interest to develop "high control zone"" along borders with Turkey/Iran





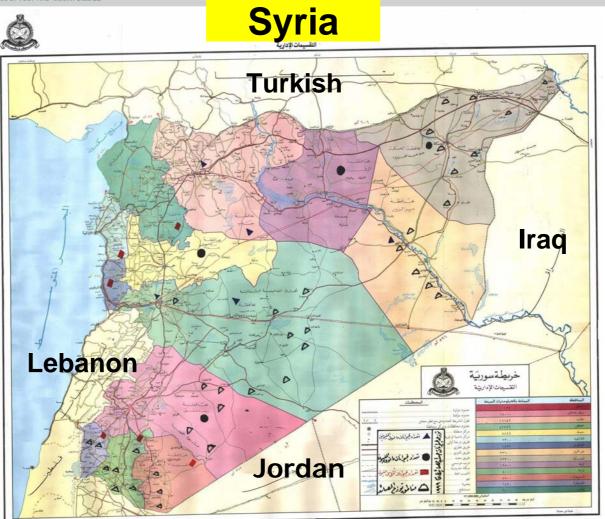
Syria

Dr.Ziad Namour Director of Animal Health doah@mail.sy

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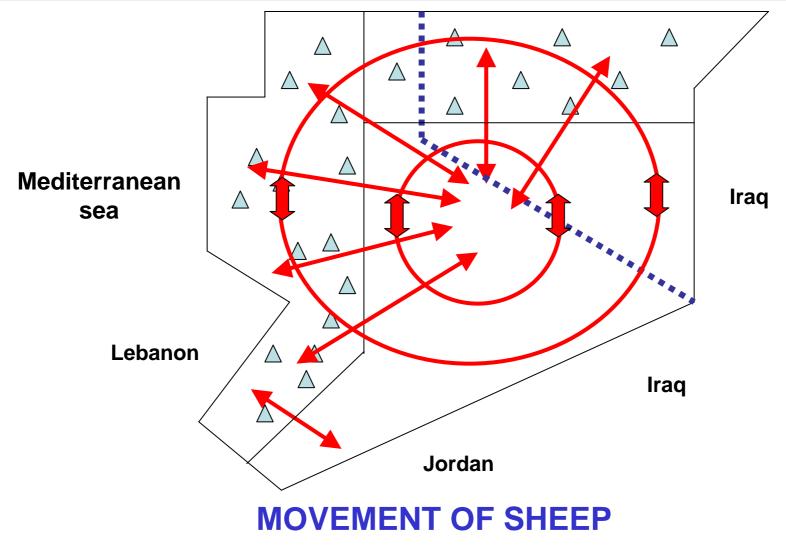


تسويقات والماصة ولأست المتعت ساست مراجع



Turkey





() FUFMD













Conclusions

- the common border areas are extremely important for maintaining FMD
- not clear if FMD persists mainly independently in each country or continual transborder movement
- high vaccination rates, but important gaps remain
- FMD risk related to calf breeding cycle and lack of effective early vaccination?
- interest of each country to improve control in the border region
- movement control need for animal ID systems
- regular sero-surveillance to monitor progress
- support from EuFMD/EC for monitoring programs and co-ordination