

### Republic of Mozambique State Administration and Public Function Ministry National Institute for Disaster Management INGC

### CENOE

**National Center for Emergency Operation** 

Mauricio Xerinda (CENOE Director)

Igor Honwana (Monitoring Officer)

Lucas Maziva (Monitoring Officer)

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# Use of Space Technology and Disaster Risk Assessment in MOZAMBIQUE





### **INTRODUCTION**

### Mozambique

- Location: Southern Africa eastern coast (10 ° 27 'e 26 ° 52' south and 30 ° 12 'e 40 ° 51' east)
- Surface: 799,380 km2 and 2.700 km of coast line
- population: 20,5 million (47,7% Man and 52,3% Woman);
- 68,5% of population is rural;
- 31,5% urbane;

### **Economy**:

80% of population – agriculture.



**Official Language:**PORTUGUESE







### **INGC**

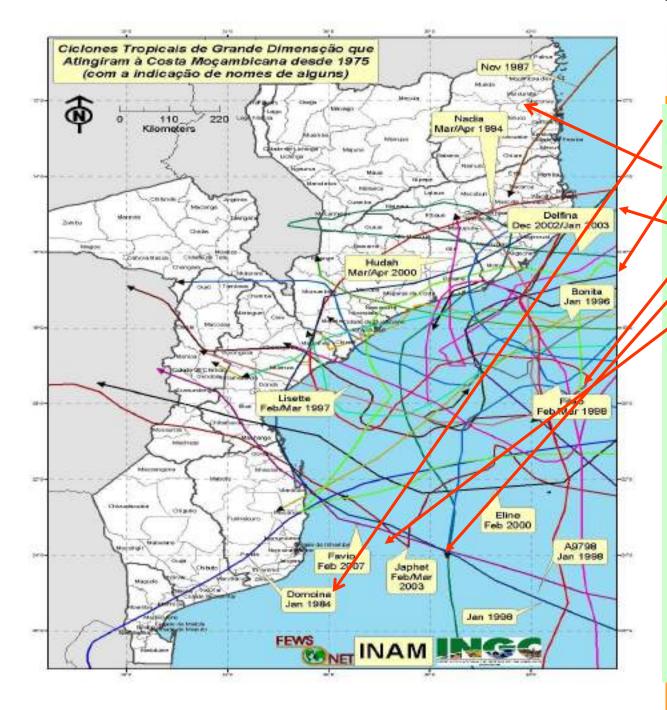
### **INGC** operation

### Direction and Coordination on Disaster Management

### Strategy border to Guiding Plan (Context)

- Vulnerability Reduction
- Prevention and Mitigation
- Response and Assistance





### **Main Cyclone tracks:**

Demoina: (109 óbitos, 80.000 afectados)

Nadia: (54 óbitos, 903.000 afectados);

Bonita: (1 óbito)

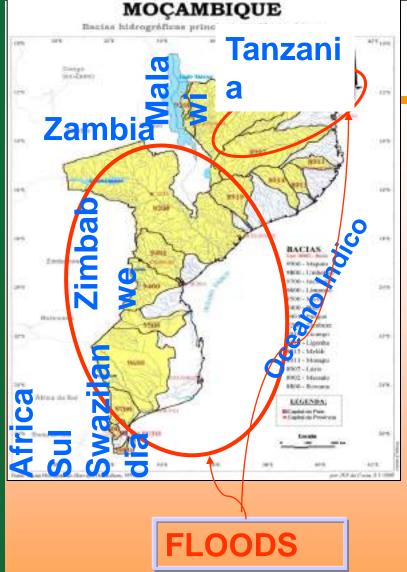
Delfina: (59óbitos, 497021 afectados)

Filao: (100 óbitos, 500 afectados)

Japhet: (21 óbitos, 105.231 afectados);

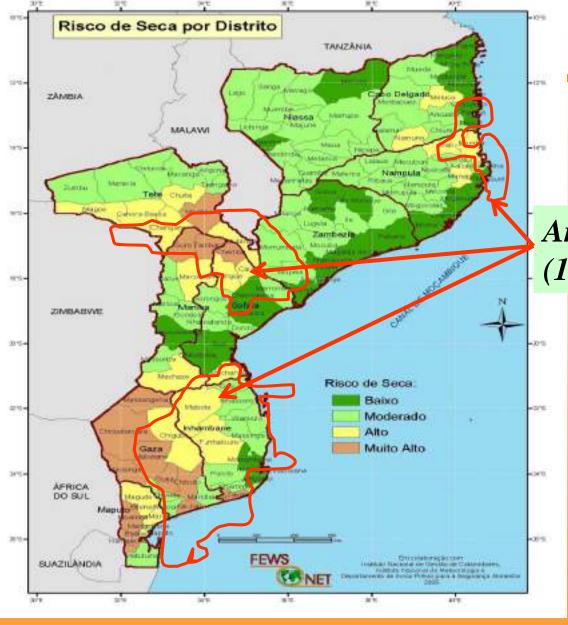
Favio: (9 óbitos, 150.000 afectados).





Ano Bacias I	Iidrográficas	óbitos	5 6	afectados	
1972 Limpop	0				
1975 Limpop	o, Incomati				
1984 Limpop	o, Incomati				
1985 Pungue, umbeluzi, Maputo, Incomati,					
Zambeze					
1997 Motom	oli, Licungo, Lurio				
1998 Govuro		23		70.000	
1999 Umbeluzi, Incomati, Limpopo, Pungue,					
Zambez	e, Lugela			400.000	
2000 Limpop	o,incomati, Umbeluzi, S <u>ave</u>	, Buzi	699	4.500.000	
2001 Pungue	, Zambeze, Chire, Licungo		113	553.000	
2006 Zambez	re				
2007 Zambeze, Buzi			181.000		
2008 Zambez	e, Pungue, Buzi, Save,				
Lucungo	o, Messalo		9	102.000	

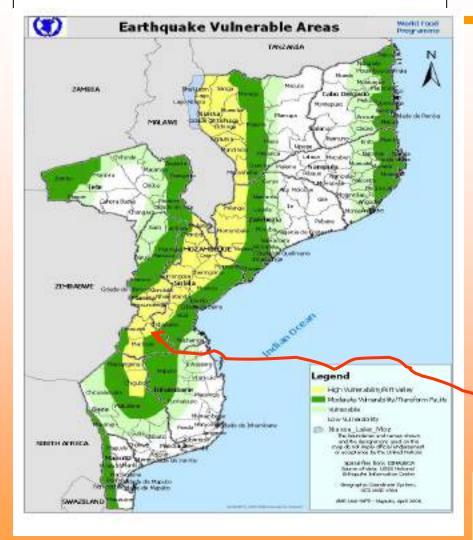


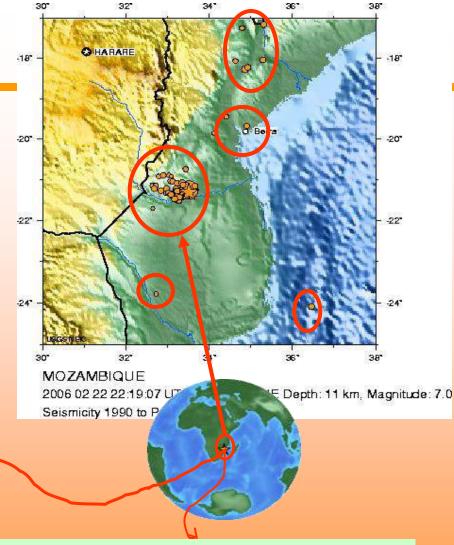


Arid and Semi – arid zones (1.5 Million affected)



### Vale do Rift





22Fev06 Sysm, with 7.0 magnitude in Machaze

Afected 1.444

Death: 4



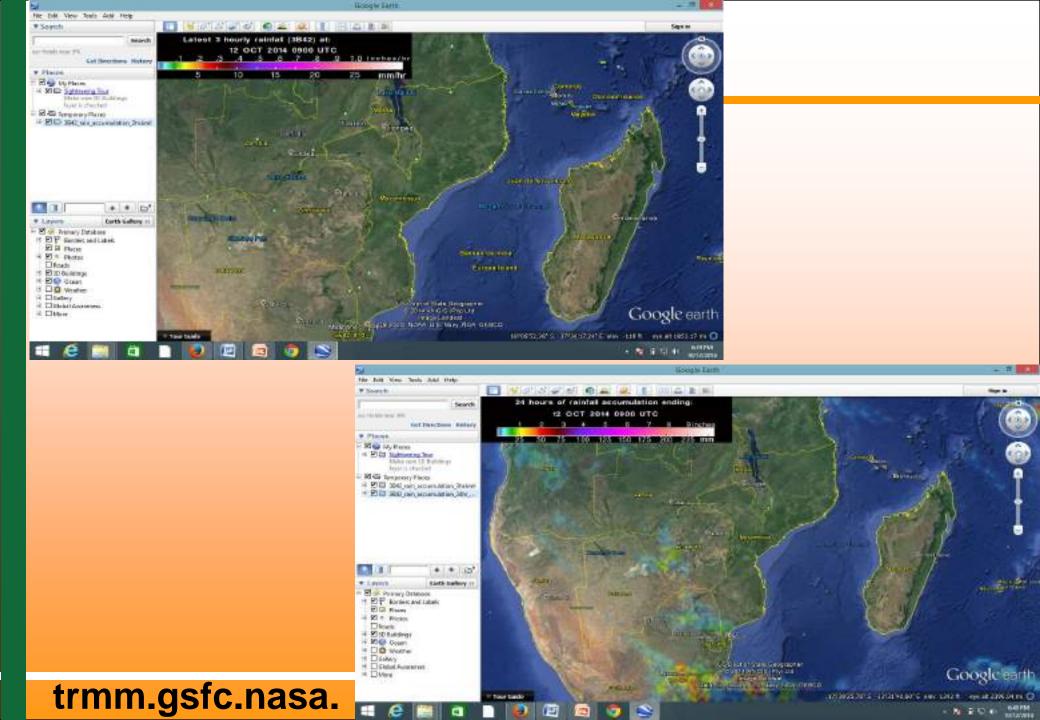
## Use of Space Technologies for Disaster Management activities in Mozambique



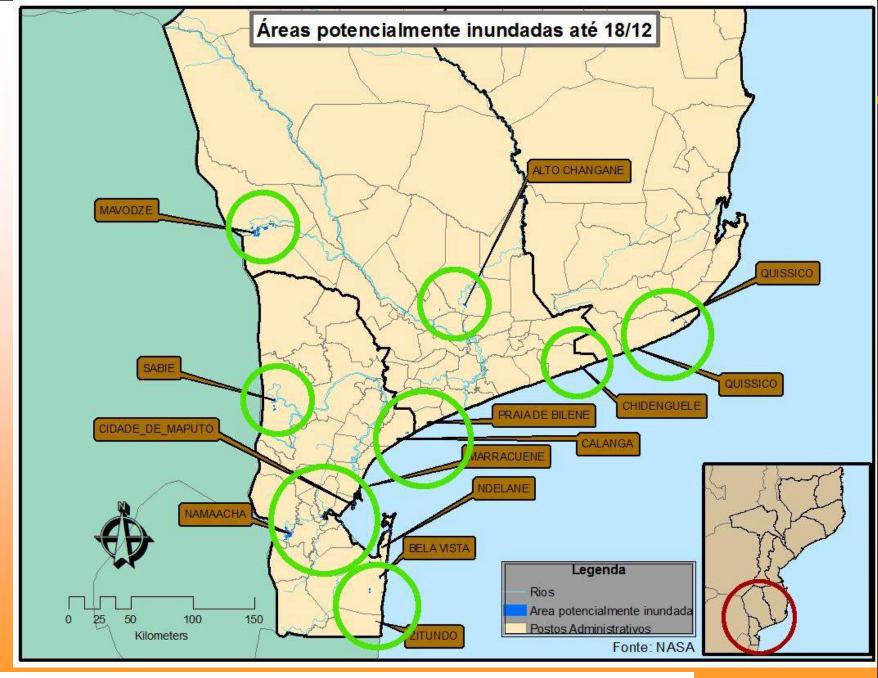


The use of space technologies in Mozambique has started in the year 2009 through the production of maps for Decision Purposes



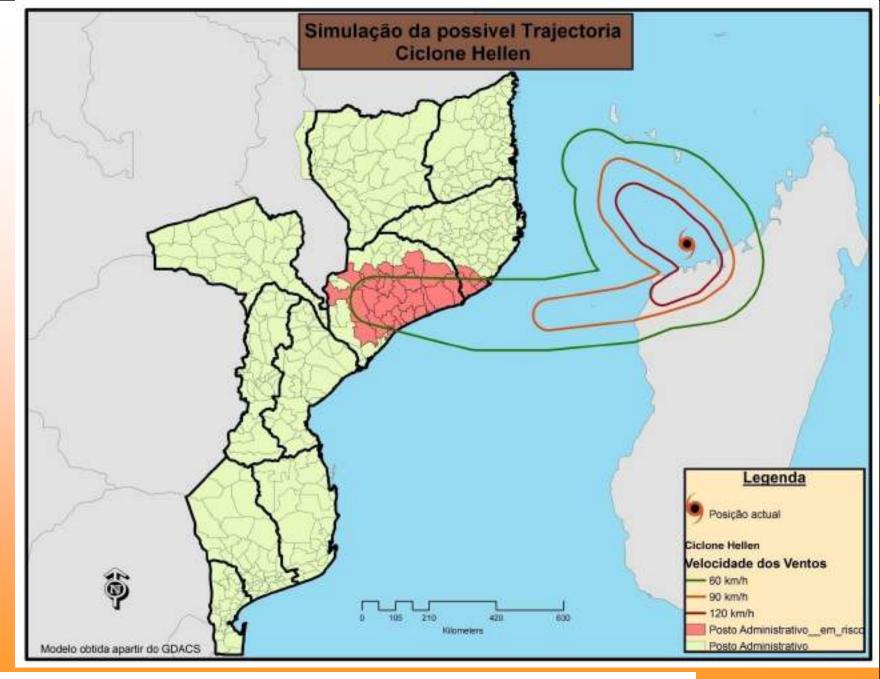






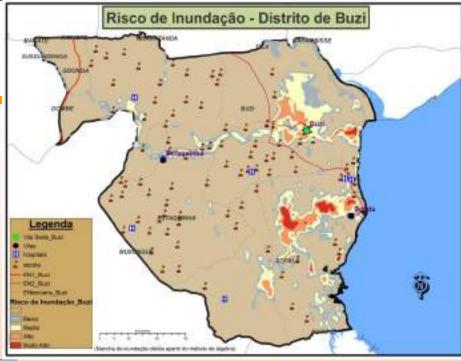


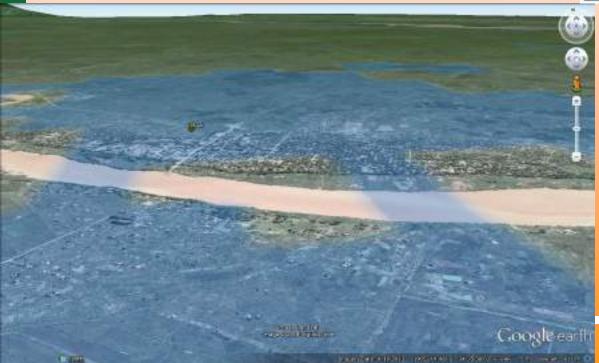










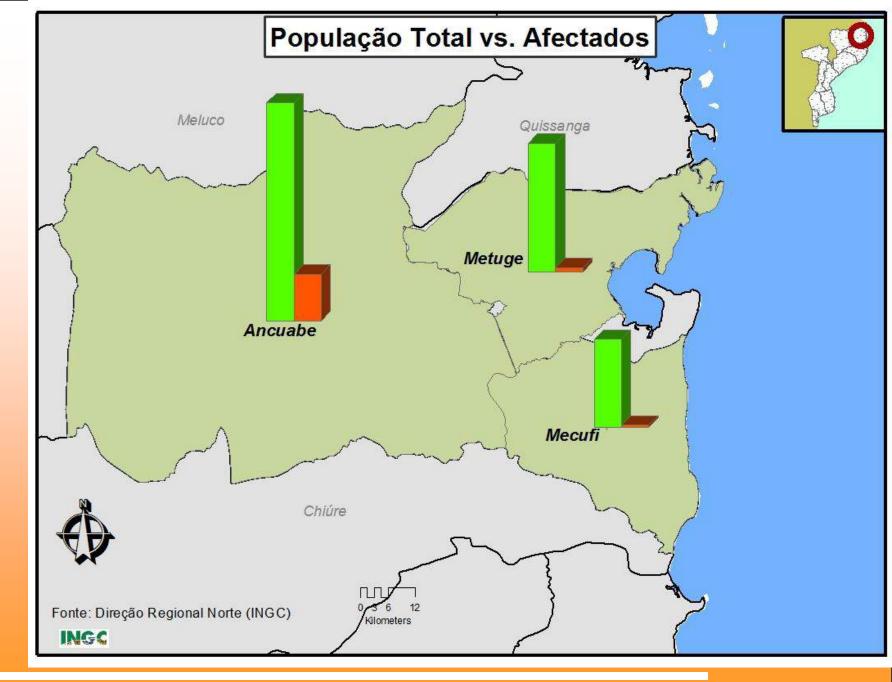










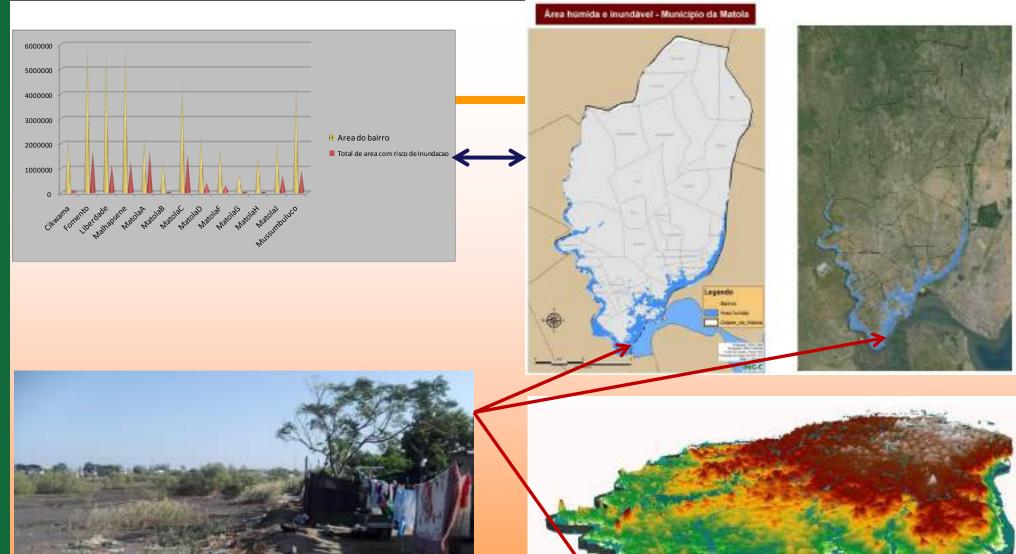






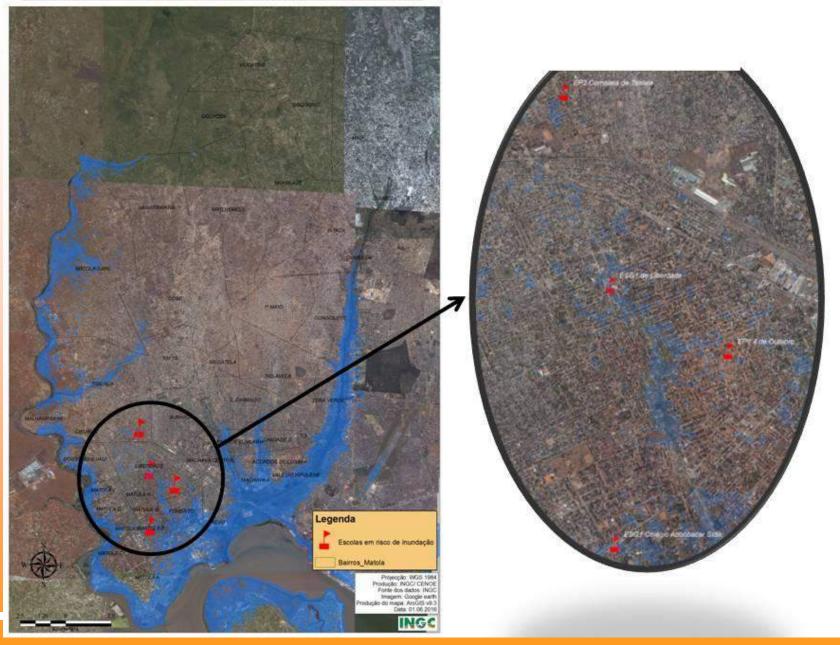
### Ongoing activities regarding use of Space Technologies in Mozambique





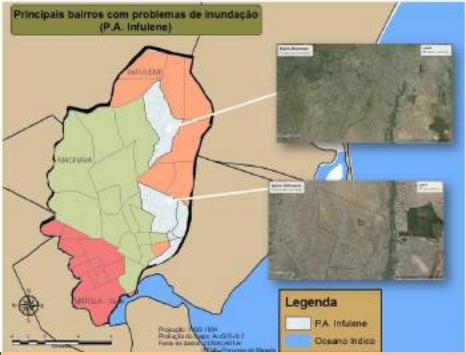


#### Infra-estruturas de Ensino em risco de Inundação Municipio da Matola





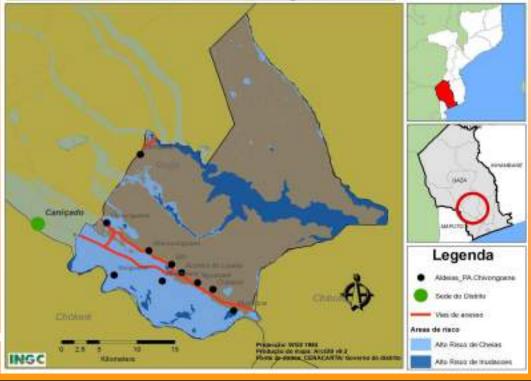
### Mapping:



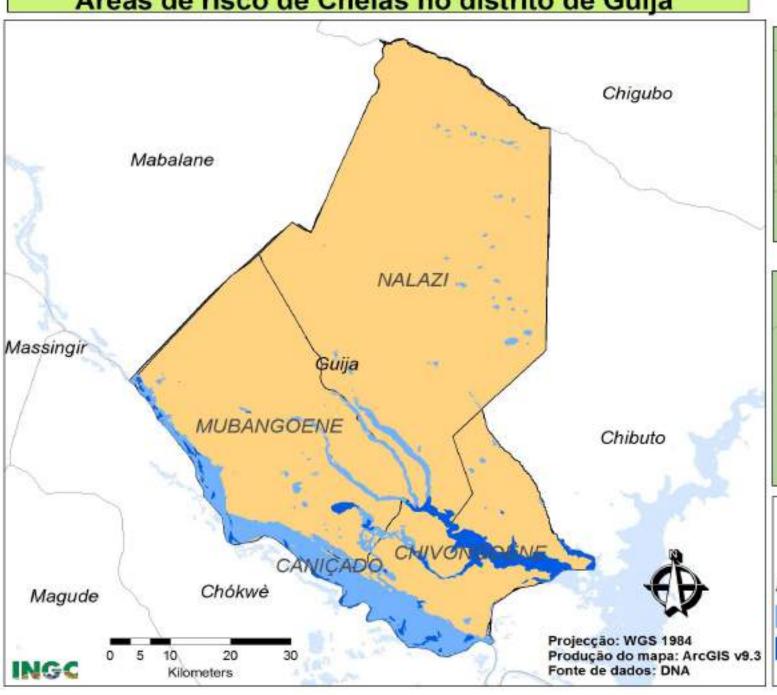








### Áreas de risco de Cheias no distrito de Guijá

















### Principais com risco de Erosão Municipio da Matola



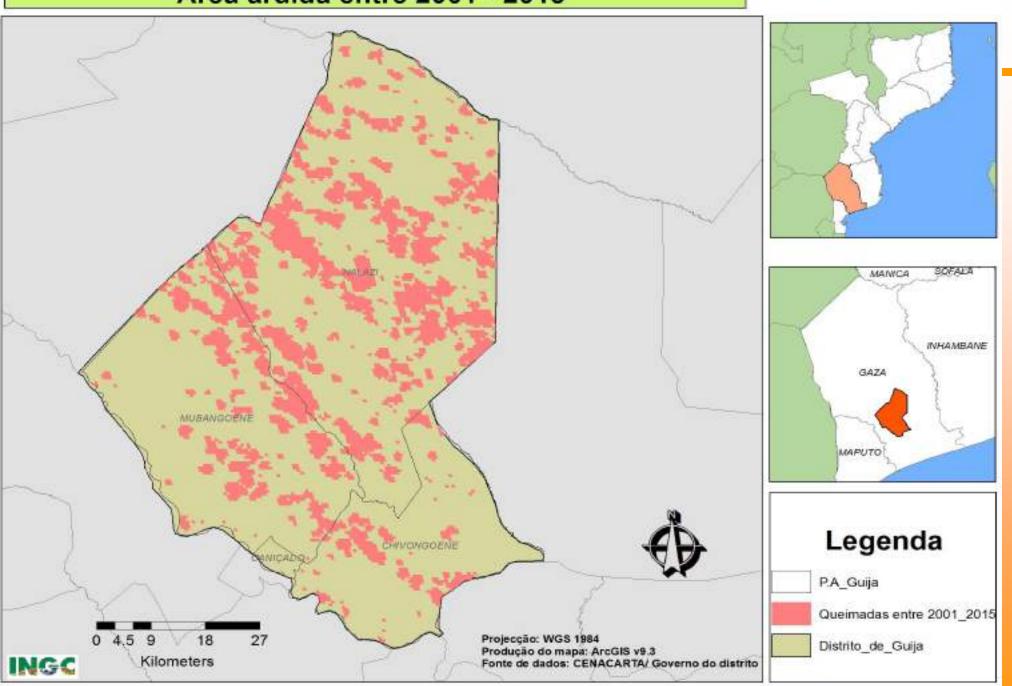






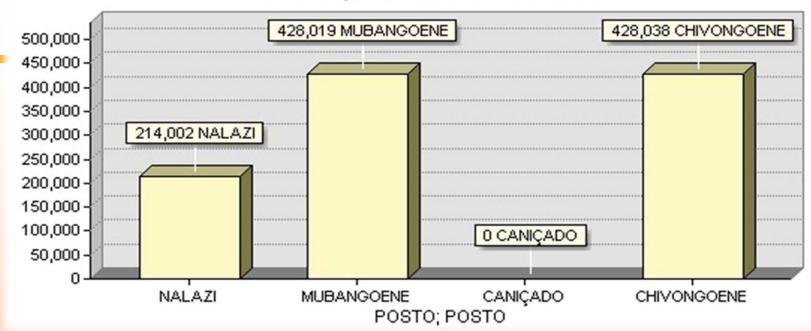


### Area ardida entre 2001 - 2015

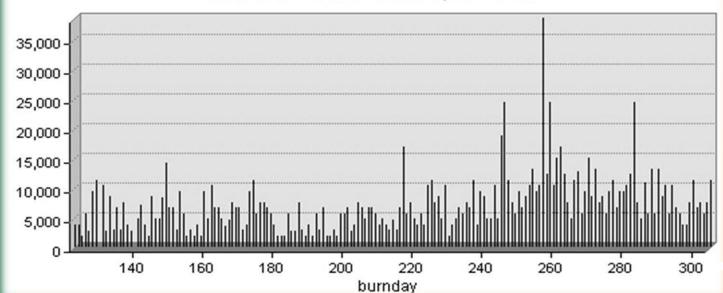




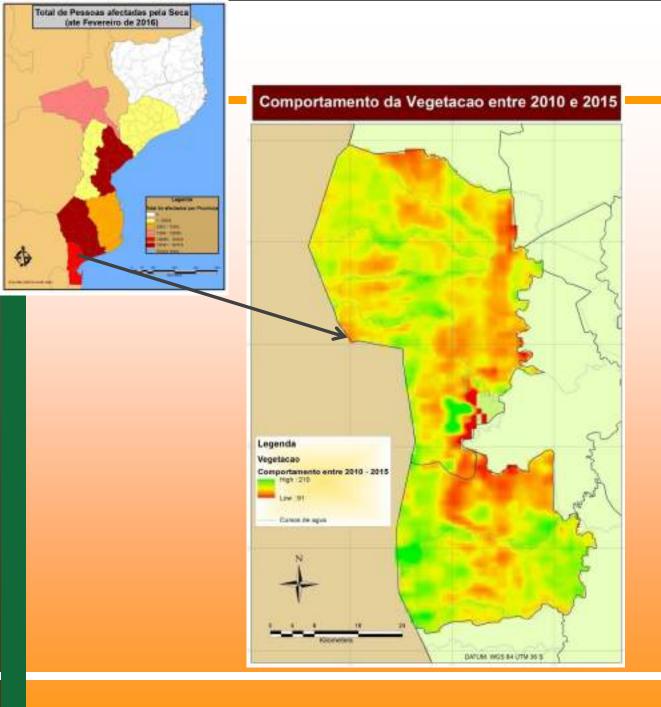
### Area ardida por Posto Administrativo



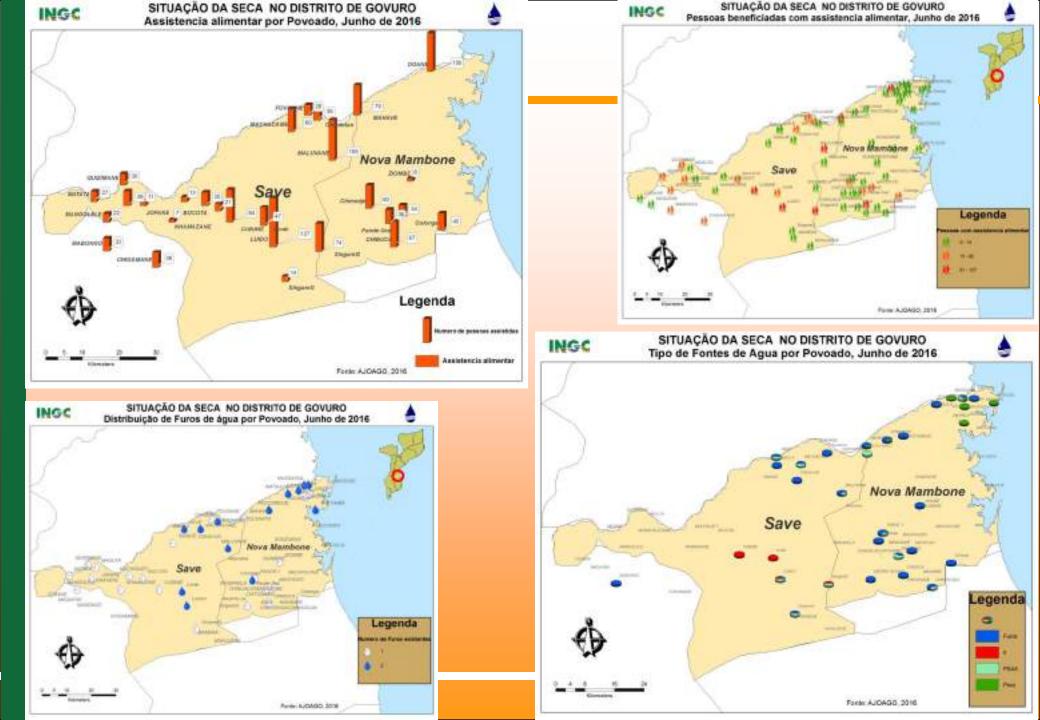
#### Grafico de Tendencia de Queimadas











### UN-SPIDER <u>Technical Advisory Mission</u> to Mozambique 8 – 12 October 2012







### **TAM TOR**

Objectives	Output	Outcome					
Review current <b>policies</b> , <b>procedures</b> and	Policy level recommendations for	<b>DRR and emergency response</b> is					
<b>mechanism</b> related to the use of space-	effective usage of space technology for	ensured through an <b>efficient</b> and					
based information and make	disaster management will be submitted	effective usage of space technology for					
recommendations.	to the authorities.	disaster management					
To engage key <b>stakeholders</b> who are	Identify mechanism for improved	Spatial data is available for disaster risk					
custodians of geo-spatial data related to	coordination among data providers and	management, on timely basis and with					
disaster management	data users to boost information sharing	higher interoperability.					
	amongst the stakeholders						
Develop a <b>capacity building</b> strategy for	Medium and long-term capacity building	Top level decision makers are aware of					
stakeholder agencies	plan and funding sources to be	technology trends, best practices and					
	recommended, with facilitation through	needs in . Critical mass of trained					
	UN-SPIDER.	personnel on utilization of space					
		technology for disaster management.					
Develop a long-term association with	Develop a national forum to	Efficient uses of national capacity and					
UN-SPIDER to take benefits of outreach	communicate with the stake holders and	resources available through UN-					
activities, capacity building programmes	develop precise action plan to implement	SPIDER network during emergency					
and resources available through UN-	recommendations.	situations, as well as in non-emergency					
SPIDER network.		situation.					







Thank you

