# Intra-ACP Climate Services and Related Applications Programme



INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME



An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union



# USER ENGAGEMENT FOR VALIDATING RAINFALL ONSET FORECAST IN SELECTED AFRICAN COUNTRIES



### **Franslation results**

**Aim: 'Contributes to strengthening** science-based climate prediction and services for members of the OACPS'

national levels

**Objectif : 'Contribue a renforcer** climat fondé sur la science prédiction et services peur membres de l'OEACP'



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### **Outcome: 'Climate-informed** decision-making is enhanced and climate services are mainstreamed into policy processes at regional and



























# 01 introduction









# **Introduction: Refresh our memory**

Climate Service Defined !

It is a term used for the tools, products and activities that help translate climate-science and climate information to non-scientists. Examples:

- 1. Seasonal Climate Forecasts
- 2. Early Warning Information for Flooding
- **Drought Monitoring Tools** 3.
- 4. Climate-Index Insurance

'All.... that protect against certain climate-risks'



01









# 1.0 Introduction : Rafraîchir notre mémoire

Service climatique défini !

Il s'agit d'un terme utilisé pour désigner les outils, produits et activités qui aident à traduire la science du climat et les informations climatiques auprès des non-scientifiques. **Exemples**:

- 1. Prévisions climatiques saisonnières
- 2. Informations d'alerte précoce en cas d'inondation
- 3. Outils de surveillance de la sécheresse
- 4. Assurance indicielle

Cli 'Tous.... qui protègent contre certains risques climatiqu

# **USER ENGAGEMENT**

- The Crucial Element of Any Climate Service is for the Users and Providers of such Services to have a strong and effective Engagement.
- Efficient Application of Climate Services such as Seasonal Forecasts requires that a User-Interface Platform (UIP) is developed for improved Decision-Making.
- As part of ACMAD's Regional Scale Climate Prediction and Monitoring functions, the Climate Service for Agricultural Calendar is produced and monitored & updated accordingly.







# **ENGAGEMENT DES UTILISATEURS**

- L'élément crucial de tout service climatique est que les utilisateurs et les fournisseurs de ces services aient un engagement fort et efficace.
- L'application efficace des services climatiques tels que les prévisions saisonnières nécessite le développement d'une plate-forme d'interface utilisateur (UIP) pour une prise de décision améliorée.
- Dans le cadre des fonctions de prévision et de surveillance du climat à l'échelle régionale de l'ACMAD, le service climatique pour le calendrier agricole est produit, surveillé et mis à jour en conséquence.









# 02 Aim of the Validation Exercise











- The Aim of the Forecast Validation Exercise is to **Create a Strong Dialogue and feedback mechanism** between ACMAD and the NMHSs.
- This will ultimately build more understanding, trust and skills to improve climateliteracy in the last mile communities.
- Guarantee future more tailored and targeted products.



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# knowledge,









- L'objectif de l'exercice de validation des prévisions est de créer un dialogue solide et un mécanisme de retour d'information entre l'ACMAD et les SMHN.
- cela terme, connaissances, la compréhension, la confiance et les compétences nécessaires sensibilisation au climat dans les communautés du dernier kilomètre.

Garantir des futurs produits plus adaptés et ciblés. INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME

permettra de renforcer les améliorer pour la





# Methodology 03









# How will the Exercise be Conducted?

- **Structured Survey Questionnaire**
- WhatsApp Platform
- Virtual Worshops
- ACMAD Website: currently being upgraded







# **Comment se déroulera l'exercice?**

- Questionnaire d'enquête structuré
- **Plateforme WhatsApp**
- **Ateliers virtuels**
- Site Web de l'ACMAD : en cours de mise à jour











# Feedback Format $\mathbf{04}$











- Brief Report with emperical evidence(s): E.g: G/Bissau
- Pictures/Videos: with brief description & date
- Ptress release/media reports/social media
- **Users** Testimonials











- Bref rapport avec preuve(s) empirique(s) : Par exemple : G/Bissau
- Photos/Vidéos : avec brève description et date
- Communiqué de presse/rapports médiatiques/médias sociaux
- Témoignages d'utilisateurs









# 05 ACMAD :CLIMATE SERVICE PRODUCTS: 301Ps: 2 Sub....UIPs









# **1- Climate Services for DRR including Climate-Infrastructure**

# **2- Climate Services for Health**

# **3- Climate Services for Agriculture including climate-Water**









### Impact forecasts prototype has been developed for UNOCHA through interactions at the climate – DRR interface





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As of 9 September 2022

N. B : This document contains evolving data which will be continuously updated.





## Heavy Rain vigilance / advisory interactions at the climate – DRR interface

### **VIGILANCE FOR HEAVY RAINFALL FOR THE NEXT 5 DAYS. POTENTIAL IMPACTS AND PREPARATION/RESPONSE MEASURES**



### MULTI-HAZARD OUTLOOK Validity: 2023-09-10

issued on 2023-09-07

///// Rain	لل Wind	Dust	Meningitis
Very heavy	Very strong	Very heavy	Very likely
>100mm	>80kmh <sup>-1</sup>	>1000µg m <sup>-3</sup>	
Heavy	Strong	Heavy	Likely
50-100mm	>65kmh <sup>-1</sup>	>600µg m³	
Moderate	Moderate	Moderate	Less likely
10 - 49mm	>50kmh <sup>-1</sup>	>400µg m <sup>-3</sup>	
Light	Light	Light	
1 - 10mm	<50kmh¹	<200µg m³	



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Vigilance products few days ahead the medicane Daniel which hit north-eastern Libya on 10 September 2023.

The storm brought heavy rainfall of rai(around 08 month) and flooding that resulted in largescale destruction.







### VIGILANCE MAP FOR MENINGITIS OUTBREAK Valid From 25 Apr to 02 May 2024 Issued on Apr 25, 2024

### HIGHLIGHT: Meningitis cases are very likely in Algeria, Libya and Chad

HIGHLIGHT: Meningitis cases likely in Morocco, Algeria, Libya, Egypt, Mauritania, Senegal, Mali, Burkina-Faso, Niger, Nigeria, Cameroon, Chad, Sudan and Eritrea







	Hazard	Potentials Impacts	Advisory / Measures
ation nidity pelow	Emergence of Meningitis cases not likely	Potential pressure on the health system	Routine surveillance systems at regional and national levels
ration to nidity % ibove	Emergence of Meningitis cases very likely	Loss of life, pressure on the health system	Activation of surveillance systems at regional and national levels
on at and / less ibove	Emergence of Meningitis cases very likely and epidemic status possible	Loss of life, increased pressure on the health system	Strengthen and increase meningitis surveillance systems at both regional and national levels

# Impact forecasts prototype developed with WHO and UNHCR through interactions at the climate – DRR interface



### HYDROMET SIGNIFICANT EVENTS: ON-GOING (with new potential impact) & POT

A Possibility of accumulated heavy rainfall of more than 100mm during the next 7 days, leading to flash flood, may occur in Guinea, Sierra Leone, N Liberia, SE Nigeria, SW & E Cameroon, N Central African Republic, S Chad, SW & E Sudan, NW, S & E South-Sudan, E Democratic Republic of the Congo, Uganda, W Kenya, Burundi, Rwanda and W Ethiopia. Moderate to severe heat wave conditions are likely to persist for 3 consecutive days (≥45°C) or longer with varied severity in Mali, Mauritania, Algeria, Niger, Chad, Egypt, Sudan, Djibouti and Somalia. [44]

A "Medicane" (see event in 2020) could form over the Gulf of Sidra on 9-10 Sep. Violent winds may create very large waves on this area. Heavy rain, thunderstorms and gusty winds are expected on 8-11 Sep over **Libya**. Gusty winds are also expected on 10-11 Sep over **Greece** and Aegean See. Heat wave on 8-9 Sep in SE Mediterranean areas. [a,b,e] Sources: [a]NMHSs. [a]WHO. [c]UNHCR. [a]RSMCs/TCWCs: RSMC Miami. [a]ECMWF. [b]NaturalEarth.

C Heavy rains/showers possible in S Myanmar on 8-14 Sep, S coast of Thailand on 9-13 Sep, W coast of Cambodia on 10-14 Sep and W coast of India on 8-11 Sep. Isolated moderate-heavy rains/showers may affect N Pakistan on 8-9 Sep, N, E, S & central India, Bangladesh, E Nepal, Bhutan and N Thailand on 8-10 Sep, N, E, W & central Myanmar, Lao PDR, and N Cambodia on 8-14 Sep, N, S & central Viet Nam on 9-14 Sep, and S Sri Lanka on 10-12 Sep. [4,4]

LEE is forecast to intensify into a major hurricane by 8 Sep and could pass N of the Lesser Antilles on 9-10 Sep and Greater Antilles on 11-13 Sep (still uncertainty - see <u>RSMC Miami</u> and <u>NMHSs</u>). Thunderstorms with local flash floods and strong winds are possible. Thunderstorms/heavy rains are expected on 8-14 Sep in parts of Central America, W Colombia and N Ecuador. Flooding and landsides are likely. Thunderstorms/heavy rains are expected on 8-9 Sep in S Brazil and on 11-14 Sep also in Uruguay, N Argentina, Paraguay and E Bolivia. Flooding are possible. [4,4,4]

Heavy rains/showers possible in W Indonesia on 8-10 Sep. Isolated moderate-heavy rains may affect W & NE Indonesia, Malaysia, and Singapore on 8-14 Sep. [s,e]





Product developed and tested with WMO and UNHCR under the WMO Coordination Mechanism (WMC) to support Humanitarian activities.

It raises awareness on possible hydrometeorological events developments of interest for Internal Displaced Person (IDP)s and Refugees worldwide.



### Meningitis **Outbreak Outlook/Advisory for WHO-AFRO/Meningitis** Surveillance And Control Programme / interactions at the Climate – Health interface

Generated with Medium Range Deterministic and S2S data from WMO Global Centres Identification of upcoming favorable climate/weather conditions for emergence of meningitis cases





5°W

5°E 15°E 25°E 35°E 45°E 55°E INTRA-ACT CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME









# Heat Wave vigilance/advisory interactions at the climate – Health interface

### VIGILANCE MAP AND POLICY BRIEF FOR HEAT WAVE

Valid From March 8 to 12, 2024

Issued on March 7, 2024

HIGHLIGHT: Moderate heat wave is expected in Cote d'Ivoire, Ghana, Togo, Benin, Nigeria, Chad, and C.A.R.





omenon	Hazard	Potentials Impacts	DRM Measures / Advices
t 5 days ent trature to 44ºC pected for ays	Heat wave Conditions persists on 2days	Moderate temperature heat is tolerable for general public but moderate health concern for vulnerable people(people chronic diseases, infants and elderly)	Civil Protection Services in Mauritania, Ghana, Togo, C.A.R, and Egypt monitor closely the heat wave situation with NHMSs.
ent erature to 44ºC pected for than 2	Moderate heat wave conditions are likely to persist for 3days ore more with varied severity	High temperature Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work High health concern for vulnerable people	Civil Protection services in Senegal, Mali, Burkina Faso, Benin, Niger, Nigeria, Cameroon, Chad, and Sudan to take adaptive and preventive measures to the heat wave situation with NHMSs.
ent eratures are ted for than 2	Severe heat wave is very likely to persist for more than 2 days,	Very high likelihood of developing heat illness and heat stroke in all ages	Civil Protection services in Chad to take adaptive and preventive measures to the strong heat wave situation with NHMSs.

The presentation of country boundaries on the map does not imply any opinion whatsoever on the part of ACMAD concerning the legal status of any country, territory or area, or concerning the delimitation of frontiers or boundaries.





# **Brief for policy and decision making – Prospects of expected rainfall**

### Available every month and valid for the next following 4-months



### CONTINENTAL BRIEF FOR POLICY AND DECISION MAKERS BASED ON SIGNIFICANT WEATHER AND CLIMATE EVENTS UPDATE. VALID FOR: AUGUST TO DECEMBER 2023



### **CLIMATE ANOMALIES**

Wetter than average season leading to heavy rainfall with possibility of flooding events very likely

### HAZARDS

Heavy rainfall events may lead to flash flood, riverine flooding, landslides and soil erosion. High chance of lightning, hail formation and stormy weather are expected

### POTENTIAL IMPACTS

Waterlogging, pest and diseases Infestation leading to outbreak of water borne diseases, damage to infrastructures (dams, reservoirs, bridges, roads...) Displacement of people due to floods.

### MEASURES

Plant water-logged-tolerant crops. Tree planting campaigns. Develop new and rehabilitate existing drainage structure. Update and implement flood contingency plans. Improve water managementin reservoirs and dams.

ClimSA

### CLIMATE ANOMALIES

Drier than average with wetter pre winter period

A very hot season with more warmer than normal days within the sea sons. Rainy days are likely to be less than normal with very marked rainfall deficit

Establish a prevention, preparedness and adaptation stem for planning and anticipating future El Niño events within a broader framework of preparing for extreme weather events



### CLIMATE ANOMALIES

Drier than average season leading to prolonged drought with possibility of persistent drought events very likely

### HAZARDS

Weak to Moderate drought, dry spells, near average to late onset very likely.

### POTENTIAL IMPACTS

Moisture stress, decreased river discharge, reduced rain-fed crop yield prospect, degradation of pastures and high food prices.

### MEASURES

Develop and implement policy to support drought tolerant and short cycle crops, soil and water conservation practice. maximize full irrigation farming. Use watershed based in-situ water harvesting structures Developand Implement policy In support of weather based in surance and dam management

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**Decision-making tool for managing** water surpluses or deficits and identifying areas favorable or unfavorable to good harvests.















# Brief for policy and decision making – Prospects of expected rainfall













NOTE D'INFORMATION À L'INTENTION DES POLITIQUES ET DES DÉCIDEURS BASÉE SUR DES ÉVÉNEMENTS MÉTÉOROLOGIQUES ET CLIMATIQUES SIGNIFICATIFS REGION DE L'AFRIQUE CENTRALE . VALABLE POUR: MARS A JUIN 2024



ANOMALIES CLIMATIQUES Saison déficitaire très probable

### ALEAS

Début de la saison normale à tardive, sequence séche trés probable.

### IMPACTS POTENTIELLES

Stress hydrique, diminution du débit de rivières, réduction de rendement des cul tures pluviales, dégradation des pâturages et prix élevés des denrées allogentaires.

### MESURES

Elaborer et mettre en œuvre une politique pour soutenir les cultures tolérantes à la sécheresse et à cycle court, les pratiques de conservation des sols et de l'eau, maximiser l'agriculture entièrement irriguée. Utiliser des structures de collecte d'eau in situ pasées sur les bassins versants Élaborer et mettre en œuvre une politique à l'appui de l'assurance météo et de la gestion des bar-



ANOMALIES CLIMATIQUES Une saison humide três probable Des fortes precipitations sont attendues

### ALEAS

De fortes précipitations peuvent entraîner des crues soudaines des rivières, des inondations urbaines, des glissements de terrain et l'érosion des sols. De fortes chances foudres, des fortes fréquences des temps orageux sont attendues

### **IMPACTS POTENTIELLES**

Maladies d'origine hydrique, Dommages aux infrastructures (barrages, réservoirs, ponts, routes...) Déplacement de personnes

### MESURES

Sélectionner des cultures tolérantes à l'excès d'humidité, de vastes campagnes de plantation d'arbres Développer de nouvelles structures de drainage et les réhabiliter existantes, Mettre à jour et mettre en œuvre des plans d'urgence en cas d'inondation Améliorer la gestion de l'eau dans les bréservoirs et les barrages

### CATIONS PROGRAMME





# Contribution to the Food Security Value Chain – Monitoring and forecasting of the start of the agricultural season

http://sgbd.acmad.org:8080/thredds/fileServer/ACMAD/CDD/clim atemonitoringservice/season\_onset\_monitoring.html

Prediction of the start of the agricultural season, dry and wet periods to support farmers in planning their activities

Future development projects should integrate the production and dissemination of this information in real time to rural areas.











Time(day





# 'alue Chain – ie agricultural season





port

# **Climate Change Services for Planning and Design Infrastructure**

https://rcc.acmad.org/CC\_Services/climate\_change\_indexes.html

### Prototype Service– Analysis of observed and Projected Extreme Event Return Period

# Nigeria: Abuja



**Extreme temperatures of > 40deg.** C will in the near future be more frequent between 1 - 3 years contrary to **37 – 39deg.** C that are presently frequent.







# **Niger: Niamey**

**Extreme temperatures of > 44 deg.** C will in the near future be more frequent between 1 - 3 years contrary to 41 – 43 deg. C that are presently frequent.













# Climate **Services: Products**













400Km

0Km

200Km

200Km 0Km 100Km

### **SCP UPDATES**





- Above Normal rainfall conditions are expected over the Northern States such as Sokoto, Zamfara, Katsina, Kano, Jigawa, Yobe, Borno, Bauchi, much of Kebbi and Gombe, as well as northern Kaduna and Adamawa States.
- Normal to Above Normal rainfall conditions expected over most parts of the are Southwestern States like Lagos, Ogun, Osun, much of Oyo, Ondo, parts of Ekiti, and Edo States.
- Normal rainfall conditions are expected in the **Central States, most of Kaduna, Adamawa,** Edo, Ekiti, Oyo, parts of Bauchi, Gombe and **Ondo States.**
- Normal to Below Normal conditions are expected over the South-south and the inland States such as Bayelsa, Rivers, Akwa Ibom, Cross River, Abia, Imo, Anambra, Ebonyi and **Enugu states.**

### **SPI ANALYSIS AND ADVISORIES**

### AUGUST, 2022 PROBABLE FLOOD RISK MAP Katsina **Zamfar** Yobe Jigawa <sub>∽</sub>Kano Bauchi aduna **HIGH RISK** Niger Plateau Adamav Fct . Nasa<mark>rawa</mark> **MEDIUM RISK** Oyo ¢Osun ( Ekiti , Benue Anambra Eponyi LOW RISK Cross River Imo Abia 600Km 0Km 200Km 400Km 800Km

- State and National Emergency Management Agencies should intensify adaptation, mitigation and response mechanisms
- States that are expected to experience varying degrees of flood episodes are advised to begin their awareness campaigns through field extension workers for possible response activities, especially in the high-risk areas.
- Measures to prevent mud slide POSSIBLE FLOOD ZONE disasters by relevant authorities especially in the Southeast are advised to be put in place.
  - Heed to other advisories by NIHSA and NEMA



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### Of what value is a forecast/product that is not communicated

















### **Reports of 2022 Flood Damages to Transport & Infrastructure Sectors**



### **Overview of the 2022 Flood Event**





# **Damages caused by floods between September and October, 2022**

- 1, 798 Communities in 263 LGAs affected.
- 300 gullies developed in 10 States of South South, South East & South West.
- Agricultural losses estimated at N700 billon.
- Damaged to roads, bridges, other transport networks.
- Caused cholera outbreak in Borno (320 persons), Adamawa 110 persons) & Yobe (320 person) with total of 300 death

### **Source: NAERLS Report to FMARD (2023)**

### **Overview of the cost implications of 2022 Flood Events**



### THE ROLE OF PARTNERSHIP FOR IMPROVED CLIMATE SERVICE DELIVERY

### The Agency through its operations develops and sustains working relationship with key national and international institutions such as:



# MDAs, State Governments







World Meteorological Organisation



United Nations Framework Convention on Climate Change













BRITISH AMERICAN TOBACCO NIGERIA FOUNDATION







Food and Agriculture Organization of the United Nations

### **COLLABORATION TOWARDS EFFECTIVE DISASTER RISK REDUCTION AND WATER RESOURCES MANAGEMENT**









as National Emergency Management Agency (NEMA).

Here, the partnership focuses on Disaster Risk **Reduction and Management across the country.** This also includes All the States and FCT **Emergency Management Agencies.** 

### COLLABORATION TOWARDS EFFECTIVE DISASTER RISK REDUCTION AND WATER RESOURCES MANAGEMENT









**NiMet Partnering with the National Inland Waterways Authority (NIWA). NIWA's Primary responsibility is the** management, maintenance and ensuring the all-year-round navigability of all inland waterways in the country. Here, the partnership focuses on Safety, development of transportation over waters and sustainable development of the economy. The collaboration also seek to increase density of weather observations through NIWA Ports.

### SCP DOWNSCALING ACTIVITIES TOWARDS FOOD SECURITY



NiMe

### Kaduna State 2022



### 2022 RAINFALL CHARACTERISTICS FOR AGRO-ECOLOGICAL ZONES IN NIGERIA

AGRO ECOLOCICAL ZONES	PLACES COVERED	ONSET DATES	CESSATION DATES	LENGTH OF GROWING SEASON (DAYS)	SEASONAL RAINFALL AMOUNT (mm)
Coastal Swamp	Aba, Brass, Ikot-Abasi, Nembe, Oron, Warri, Eket, Otuoke, Patani, Sagbama, Yenagoa, Port Harcourt, Ughelli, Uyo, Calabar, Ekeremor, Degema, Badagry, Bakassi,	28 Feb – 21 Mar	5 Dec – 27 Dec	250 -300	1800 - 3000
Tropical Rain Forest	Abeokuta, Benin, Afikpo, Ekiti, Osogbo, Asaba, Owerri, Owo, Sango-Ota, Sagamu, Etsako, Ijebu, Ifedayo, Bekwarra, Ihiala, Arochukwu, liesha	15 Mar – 30 Apr	10 Nov – 10 Dec	225 - 270	1300 - 2200
Guinea Savannah	Abakiliki, Oturkpo, Agbani, Ezeagu, Saki, Ajaokuta, Ilorin, Awka, Minna, Bida, Ogoja, Makurdi, Jeba, Jos, FCT (Abuja), Ibi, Latia, Doma, Awe, Gwer, Wukari, Takum, Bassa, Mokwa	10 Apr – 25 May	1 Nov – 25 Nov	175 - 250	950 - 1950
Sudan Savannah	Ikara, Shani, soba, Madagali, Yauri, Bogoro, Biu, Gulani, Igabi, Birnin Gwari, Lere, Danja, Samna, Mubi, Yola, Bauchi, Akko, Dass, Shiroro, Zaria, Kaduna, Sabuwa	12 May – 15 June	10 Oct – 30 Oct	120 - 180	730 - 1100
Sahel Savannah	Bama, Nguru, Illela, Zaki, Sokoto, Maiduguri, Dutsi, Katsina, Gusau, Shinkafi, Daura, Argungu, Wamako, Rabah, Augie, Yusufari, Geidam, Babura, Mungono, Dutse, Matazu, Aleiro, Fika	05 June 10 July	28 Sept– 20 Oct	85 - 130	340 - 760



### Kwali, Abuja 2023





### Oyo State 2023

**NiMet relies on partnership** to take our predictions to the last mile. This involves actors in the climate services value chain such as NGOs (e.g., HEDA, USAID), **State Governments, MDAs** etc.

### WMO HYDROLOGICAL STATUS AND OUTLOOK SYSTEM WORKSHOP (HydroSOS)



Building Synergy/Interface for Sustainable Water Management through effective Hydro-Meteorological Synergy and Stakeholders' engagements.

## **COLLABORATION TOWARDS EFFECTIVE MARITIME & ENVIRONMENTAL** MANAGEMENT









**NiMet Partnering with Nigerian Maritime** Administration and Safety Agency, NIMASA. This was a milestone for us, after many years of deliberations. We have started issuing daily marine-focused weather forecast while investing in the marine meteorological unit of the Agency to provide more tailored services.

**NiMet Partnering with the Federal Ministry of Environment including its various Departments and projects.** Such as, National **Council on Environment, the Department of Climate Change where we have worked on** NDCs, GHG, etc.; drought and desertification projects, ecosystem and flood management, **AGRO-Climatic Resilience in Semi-arid** Landscapes (ACRESAL) Project

# **Intra-ACP Climate Services** and Related Applications Programme

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# WHAT NEXT? DISCUSSION.....



