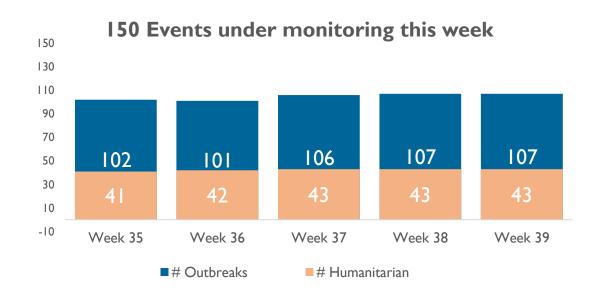


Dr Dick Chamla Programme Area Manager Emergency Preparedness, WHO AFRO



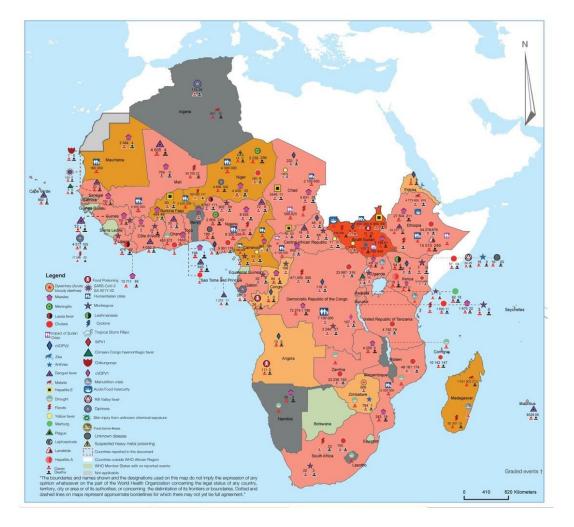


# PHE events currently monitored in AFRO region



#### **Graded Emergencies**

Grade	Number
GI	0
G2	2
G3	9
PI	0
P2	6
P3	1
Ungraded	71



## **Transformations in Risk Assessments**

### From analogs to Al-driven innovations

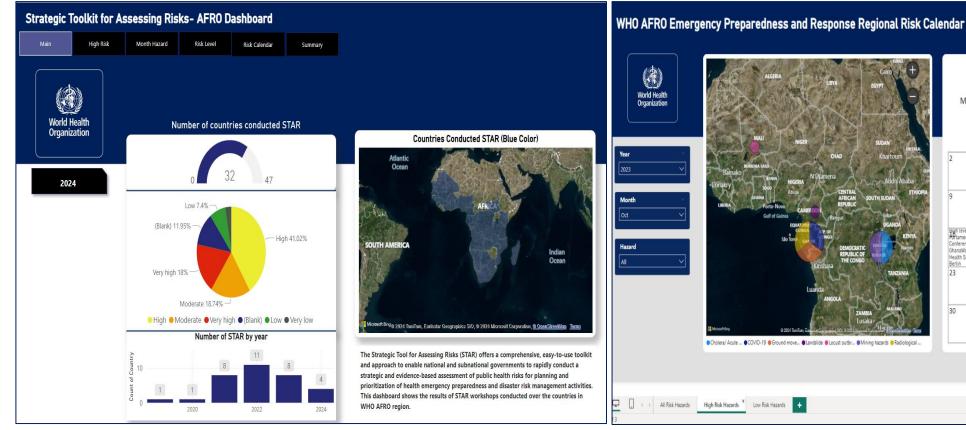
 Transforming Strategic Toolkit for Assessing Risks (STAR) into Interactive STAR dashboard and Regional Risk Calendar

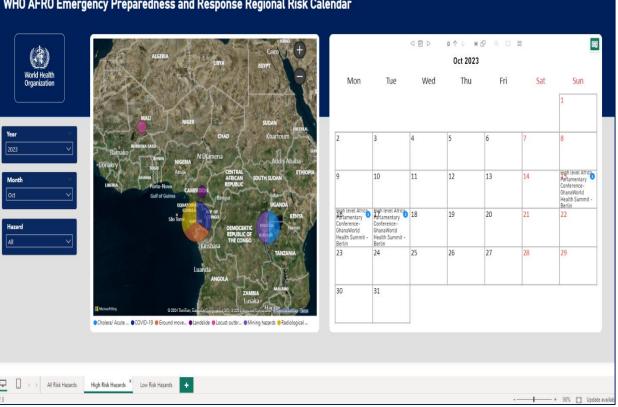
2. Al-driven automated hazard alerts

3. Al-driven predictive modeling of PHE cases and deaths



# STAR dashboard and Regional Risk Calendar



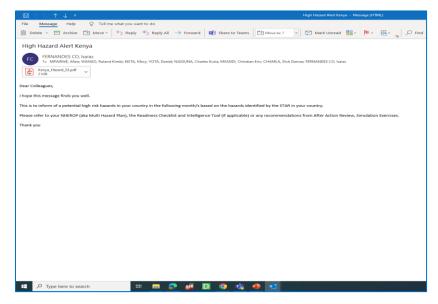




### **Automated hazards alerts**

- Triggered and sent to AFRO member states
- In three languages 2 months in advance
- E-mail with attachments
- Information on actions required







## **Al-driven Predictive Modeling**

#### **Actual vs Forecasted trends incorporating weather data**

# 2000 - Proceast DRC\_cases - Observed DRC\_cases - Observed PRCCTOTCORR - Forecast DRC\_Cases - Observed PRCCTOTCORR - Forecast DRC\_deaths - Observed PRCCTOTCORR - Forecast TEM - Observed PRCCTOTCORR - Forecast TEM - Forecast TEM - Forecast TEM - Forecast TEM - SM - Observed TEM - TEM - SM - Forecast TEM - SM - Observed TEM - SM - Forecast TEM - SM - Forecast TEM - SM - Observed TEM - SM - Forecast TEM - SM - Observed TEM - SM - Forecast TEM - S

#### Predictive model accuracy using DRC cholera data

Variable	MSE	RMSE	MAE	Accuracy
DRC cases	253161.03	503.15	510.60	
DRC deaths	61.12	7.82	5.71	
PRECTOTCORR	459.60	21.44	17.48	18.9%
T2M	2.02	1.42	1.27	95.13%
T2M_MAX	6.00	2.45	2.40	92.73%
T2M_MIN	0.75	0.87	0.98	95.14%
rfe	485.57	22.04	14.30	91.3%



## **Next steps**



2 Mobile App



3 Linkages with Readiness Intelligence Tool, hotspots analysis



Final Version of EMP video on Risk Calendar and prediction



