## HEME 1-3 47

AMCOW - Uwc R new secretariat has been stated to boost Capacity to SA/SADC got newly acquired groundwate sessoned Bayanda

O Fragmited arrangement - the Matimal Spirit - is it addressed by in the NBS O a one entry point. neets to be created to a void confusion. He by previous the regarding grandwate issues need to be observed to the Bayende

DEgineen with gwhydrologry Training? W How do me infrase restrictions for 8/water in terms of Arong St

DEA & DP ! Amina Sulainan Contaminated land & Section 30 of industry Guich as Impact g'alvani sing; tanneries) - how will this be managed to porte dis our gwater bron pollution imports

- Industry impact or ground water should be looked @ speafically WC-SADPCZEFFEREN

WC-EADPCREARING development - Shake ges OProcess of NGS development - Shake ges development proponent stockeholders not consulted

Consultady Need that NAS- 5 par. progets "it W not received they attend in past." EA2 WILLA could thous our thed. Directorate

3 "... Gody, dio kay, dis marticled 2003..." - Rot 2003 at Hood Office 200 a small Gebydiology Discourse who pionideal Recommendations to Walda Rumithing Aithonize mendations to Walda Rumithing Aithonize

tions. (1) Funding - Possible if the following fectors be considered Oblivical Will to economically develop a region OGW profile as Bautor war significant by main againers Of ablic afficies Professional Spinions; 2 by main againers Of ablic afficies Professional Spinions; 2 D. Borrow (GEOSS) (PRIMATE SECTOR) Escontist to the strategy auccess - is a clear & detailed IMPLEMENTATION STRATEGY. This will require engagened staticulaters, something that will be difficult to achieve. The greater abstacle to staticulate engagement, is igniciance if lack of knowledge. Groundwatters wears to not understand groundwatter, its equire to finite nature & how it integrates into the hydroged greater. The IMPLEMENTATION STRATEGY must bring groundwatter into the information age.

1. TOWN PLANNING & BETELEPATENT SEPARATIONS ON UNDER EROUND NATER FOR THE ONDER A CAPACITY STUDY ON THE AROUND NATER BEFORE COMMENCE 4917H ANS WATER CONSUMING DETEROPATIONS, (NEED TO BE REGULATED) MUMILIPATY.

GROUND WATER KESOURCE PROTECTION; ACTIVITIES MUST BE ADDED TO NATIONAR KPI. LOCAL GOVERNMENT MUST REPORT ON THE INITIATIVES MONITORING

3. GEOHY drology report for ALL/ BORE EVERY BOREHOLE.

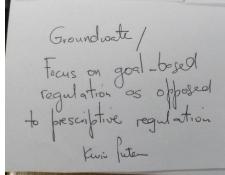
## HEME 1-347

\* Consider forture scenarios planning as a means to secure transling # raise awareness for ground water.

- Climate charge adaptation - Ecosystem-based adaptation or disaster nik reduction.

eg = draught causes low surface writer .". need to turn to ground writer.

Cheric Forbes PhD Student (UCT) Palaececology # EDH in Gout Withelack Arms.



GAS Sed 39 of NWA.

> gooms/ha/a quite high.

when cut back what about authorised water user's will they loose their water allocation. In vestment was done ! Capilicit departmental task team to drive implementation past publishing

2) Involve "groundwater champions" from other

Sections during NGS development and an plementation Ensures by large in .

(3) Finance) = veg very NB. staket ers car provide input or a project by project basis (no by longeving); How to automic this hirdle.

10.0

Annabel Marian How DEA + DP 2014838100 annabel-horn Dwester cape gov 1 also representative an for FIVCRT-Round Table Energy, Water, land for fruit industy & Whe

• TPPs with former ore hole well feels

· Need a ground wanter Champion to promote/ Market ground water

What was the barrier to implement Groundwater Stratey (2010). These lessons need to be incorporated in the strategy. Kerri Pieter

DEA & DP - Amina Sulaiman Contominated land & Section 30

How will DWS find the copacity to develop strong national gwater leadership and how will this copacity be distributed.

1heme 1-387 O Most municipalities do not have technical pepennet / groundwater technicians as a result implementations are not done Elact of awareness in municipalities which result in less interest in groundwate planning or implementation Possible Selections O En back on groundwater awareness to local authorities 2 Authorities 2 Review funding model to municipalities which Stread Cater for groundwater planning budget 3 Municipalities to hire groundwater technical Person basic level is a support programmer to technical - Boccom alterity signed support programmer to the montharing municipality employees declamical to be montharing - John Sibrayani - George Proprote successful projects to municipalities or area who are distributed good a don't see it as reliable Groundwater remediation is not sufficiently covered in the water act/ ogistation

have specific guidelines for known contaminants

Researcher.

Marthan Theari (CER) (NGO Sector) The strategy needs to be published where references for a policy context -> where references to policy context -> where a policy is a policy of the p for the strategy to be fablished as part at the total NWRS as it is a binding shatego Norms & Standards?

Do these relate to "quality" quantity" guidelines? Or for a specific setting / Geological/locality? Or to management practises? Researcher.

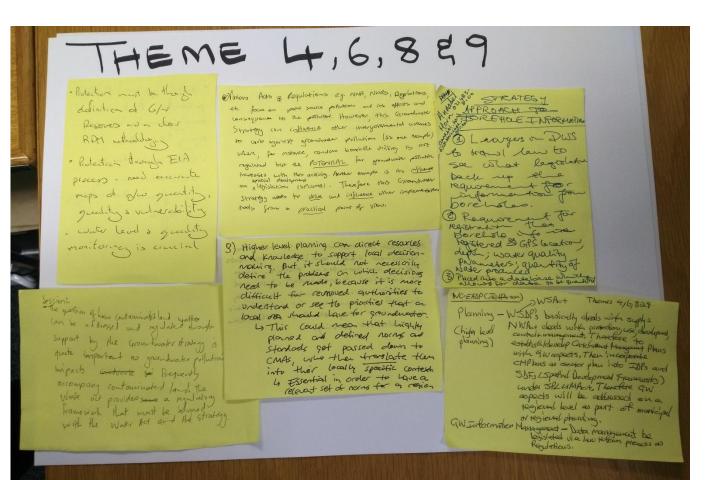
ground wate Maniteur Committees are in ned for gluxeter models. How can financial assistance be provided? DWDES CMA'S

of Not all municipalities to be "forced" or USO cohersed into using grandwater; i.e. only where it is feasible and/or

- required. -> informed by groundwater potential
- -> strategic water source areas

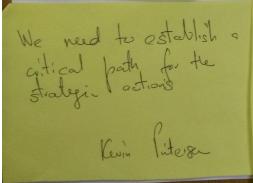
> etc:

\* grandwater shall not be seen as only a draght relif option.



2. THEME 4,6,889 Annabel Horn 021 48301 DEADP + FLURF-Fruit PEADP + Round Table Dale Barren - Ground water regulation at local CMA level The promotion, protection, publicising & concert hornewing of groundwater will be achieved Monitoring of WL & quality in all wmA's needs to when stokeholders collectively become informal of what grounduste is, where it causes from - However, Kalahari-Karoo be improved! There has aquifer whice goes been a dramatic it have to manage it. Only then can we transboundary SH, Botswara, Namibia - these internatfacilitate a stateholder response, rather than reduction in the membe of BHIS that have been top dawn (Policy -> stateholder) appeach lonal negotiations monitored over the last a national teneral. decade Morthan Theart ((Ef) (NGO) . GEOHYDROLOGY REPORT FOR ALL There is dire need for a regulatory audit to in the different institutions charged with the implementation of the strategy Most of the strategi & EVERY BOREHOLE Lisk Assesment actions focus on the Risk MANAGEMENT stategic governance level U LINKED TO KPI'S rather than local actions o Marthan Thealt (CER) (NOO) ( Centralizing data -> everyone needs There is no legislative mechanism baseline date for studies; i.e. if you Kuin fitese make your data available others will do in the NWA to providing for the the same. declaration of "projected resources or "no-go" aroas. We strongly

## 3/1 HEME 4,6,889 Anaudo Mellonza (CER): NGO Municipal & bydro gaby's work together to manage groundwater Protection of widely distributed Remembes Municipal The accumalete groundwater resources. Buyin from municipalities to forber and recommendate Bylaws. le protection reads to be "source effect of gluets based " nore them "resource and well field manyment · Currently very much taking. Especially based " Those sources of groundwates outdated, but needs Critical issues : Gw caucation and parties or working scheness That are not emerging schenes allicle are strategic in nature (ie. When verification of a to be updated \$ but they are of national importance, for prample) phouse be regulated in pipoty indicated that could be used. a property class not have Potection of a wreawas: Compulsority or Legul requirement to submice all contamination accessment darts to a central terms of the ease. This will automatically e.g. Mun's using any water entitlement altheve groundwater resource protection. Then the property cam get access to gluo gluster for supporting without having to traymout pretection for each groundwater resource. Domestic Supplies when the G/A .



recommend the inforperation

AWU

gluates to be de vined. eg. fountain / spring Surface water.

Graundwater when bachole drilled into earth Crust. A strategic meeting meets to be held between ows, municipalities & cayultants to discuss & agree on famat of all groundweater related data & how it should be captured.

## HEME 5,10 \$11 O Big misurderstading of glucater at municipalities. NGS document to Enfacement 1 be aligned with @ Local- level management. Protection of budgets need to be made CMA's Cathment accuitable gluster Resources @ A free - sustainable case Management Strategy. crutial - Monitoring. a grunter. monitoring + managuent keep doc's simplicitie Car taken ogewist · Pte sector must get for stakeholders to Internetips aver abstraction / for more modelies is understand. Palluting water resources Session 5, 10 \$ 11 Coastal Aquikr Whe need to old files have link economies Academic methodocu's role ... and the interaction eg: Dept of Biological Sciences @ Valuable internation > to the value of with the estuarine UCT ... students are gualified atte an g/water Data water, also when 3-4 years but do not have th Systems needs to applying des a licence e.g. time frames, practical scalls to datain a job. eg. Solid Waste be protected against overguelitred. Sile Permits as I thus should be communicated to students beforehand an they are aware over abstration. issued by (DWAF etc. I training / internitives built into undergrad or Horans degrees to trat they not Dwas. have posted experiorce. Cheric Follows By PhD student (UCT)



Local Action: Those are NGO perspective

to ONA establishment & the necessary

delegation of powers is necessary for effectively nothing out the NGS of

helpe a budget allocation for

le public participation & muluement

he suprementation of the NGS (PTO)

local level

Aquity management - Shared aquity resources to be in sector plans WSDPs or preferrely CAPPlans to be incorporated little regional spathal development plans, The management and thinking of these aquictus will then become entercomble at local regional level based on SPLUMA 2/or MJA (ZDB),

- newsons action to lists deve by Some Roberton 2 RDR Sand to increase Remadiation Because historically industries bound on 9W Remaliation Industries

When EIA's are storted film and not when a energy conservation - this should le encouraged with heating le casier possing of Ela's or WURA's charter best fuctors be in flieded

OR Critical selfembles in my sector where potentin and conservation put in place in the planning phase & a project make it a requirement For EIA'S & WULLA'S & Action iters expected from water users downstream e.g. source protection is sometimes not practical e.g. a CMAR requirented for a Daria does not have lived functions/ requirements and a WSP in an area 300 kins away, atthough winy the same water (e.g. on the Sonderend river ).

Need to have on implementatic stategy

Need to bring grandusti ite the information age !

Dale Barrow (GEOSS)

This is not an action PLAN DNUS reads to clearly stipulate & An action plan is specific, with take a budget allocation for intervals of who & have If a proper with plan is not doubled, there will UAs + CNUTS to actively pursue not be oction. Please don't out this wir mandates, he order to ensure cament on oction plan.

Communication allways important ... ? Why was this Session without Mun. gluste uses. Pls check upon water uses when distributing invited. Crot O pts see as (7)

Community awareness Campaigns