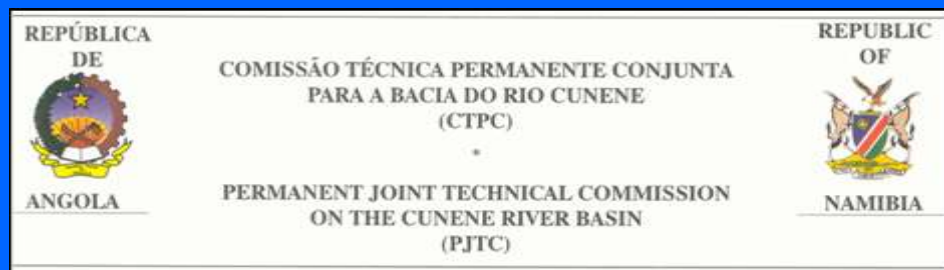


Kuiri F Tjipangandjara (*D Sci Eng*)

Co-Chairs: Task Force Calueqe

**Permanent Joint Technical Commission of the
Kunene River Basin: Angola and Namibia**

**General Manager: Engineering and Scientific Services
Namibia Water Corporation, Windhoek, Namibia**



Kunene Transboundary Water Supply Project: Angola and Namibia - Improving Water Supply Security Through Maximizing Benefits Sharing

**INTERNATIONAL CONFERENCE ON FRESH WATER GOVERNANCE
FOR SUSTAINABLE DEVELOPMENT**

**Drakensburg Sports Resort, Republic of South Africa
4 - 7 November 2012**



PRESENTATION

1. Kunene River Basin

- Location; Uses; Governance; Water Supply Situation

2. Kunene Transboundary water Supply Project: Angola and Namibia

- Evolution; Partners; Scope
- Integration; Milestones
- Challenges and Lessons Learnt
- Achievements; Benefits

3. Questions and Comments



Kunene River Basin

- Angola (85%) and Namibia (15%) -

Length: 1 050 km

Basin: 106 560 km²

Population: ~ 3mill?

Livestock : ~ 3 – 5mill?

Importance:

Tourism

Water Uses

Agriculture

Households

Industries

Power Generation



Kunene River Basin

- Governance –

❑ **Permanente Technical Commission on the Kunene River Basin (PJTC) – 1966; Ratified in 1991**

- ❖ **Government-appointed Commissioners (3 per Country)**
- ❖ **Co-opted Members**
- ❖ **Committees**
 - Task Force Calueqe
 - Kunene Master Studies
 - Baines Project
 - Bi-lateral Agreement
- ❖ **Bi-annual Meeting**
- ❖ **Alternate Venues**
- ❖ **No Full-time Secretariat**

➤ **URGENCY: TRANSFORM PJTC INTO A PROPER RBO**



Kunene River Basin: - Water Supply Provision -

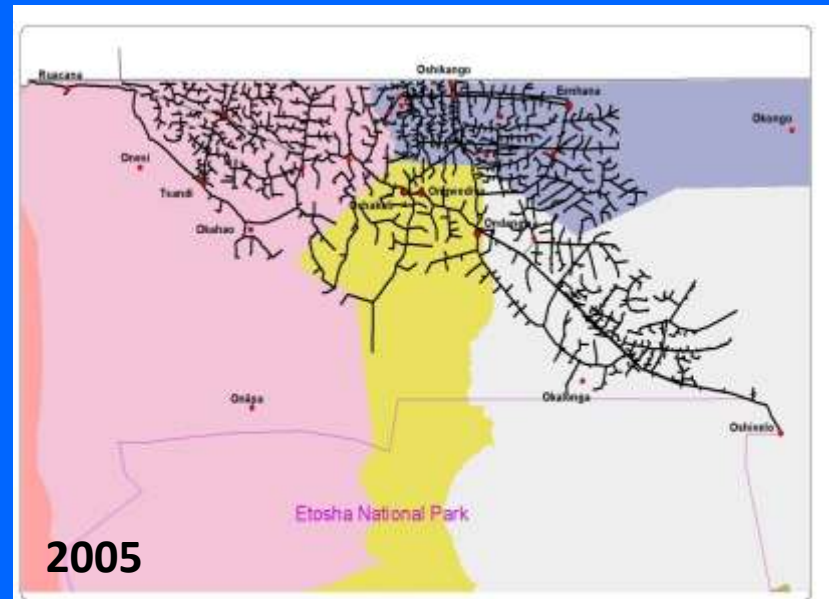
ANGOLA:

- ❑ Peace came only after 2002
- Absence of Peace : No Development
 - Slow Provision of Services (Water and Sanitation)



NAMIBIA:

- [illegible]



Kunene River Basin

- Water Supply: Namibia and Angola –

CONCERNS/PERCEPTIONS

- **Benefits**
 - **Few**
 - **Not Equitable**
- **Questions:**
 - **Ownership of the River**
 - **Payment for Services (Water and Electricity)**
 - **Relevance of the Water Agreements**

Kunene River Basin

- Water Supply Provision -



Kunene River Basin

- Water Supply: Namibia and Angola –

❑ Project Conception: Excellent

❑ No Funding : For Execution

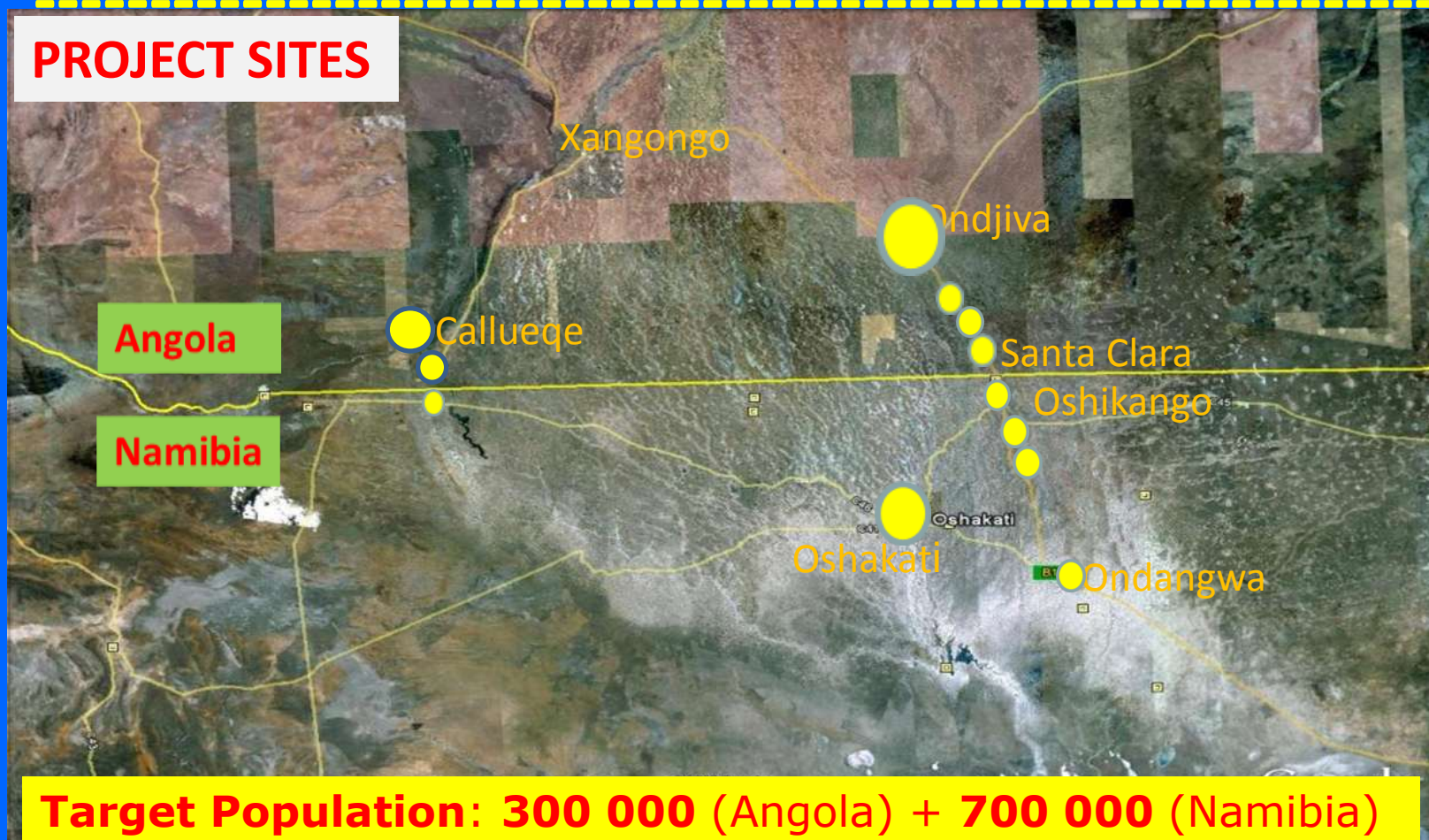
❖ Support from SADC

- Assistance from GIZ (Transboundary Water Supply Unit)
- Commitment for Funding from KfW (Pilot)

➤ *Kunene Transboundary Water Supply Project: Angola and Namibia*



Kunene Transboundary Water Supply Project: Angola and Namibia



Kunene Transboundary Water Supply Project: Angola and Namibia

PARTNERS

Regional Organization

- SADC

Cooperation Partners

- KfW
- GIZ
- AUSAID
- UKAID

River Basin Organization

- PJTC
- *Cuvelai Basin*

Countries

- Angola
- Namibia
- Germany
- United Kingdom
- Australia
- *Austria(Cons.)*

Power Utilities

- ENE
- NamPower

Water Utilities

- NamWater
- *EPASC*

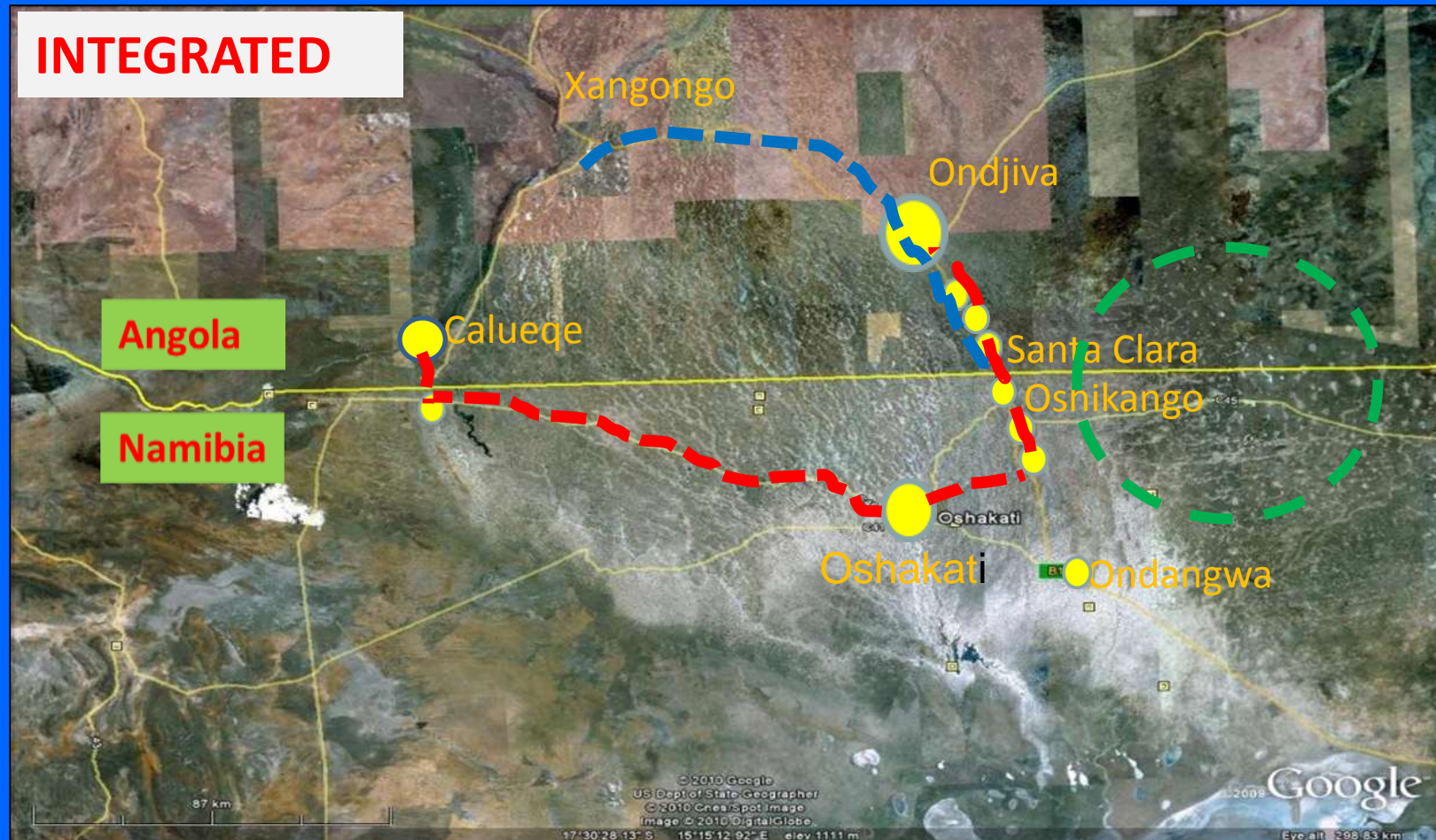
Kunene Transboundary Water Supply Project: Angola and Namibia

No	Components	Location	Beneficiary
1	Calueqe Power Supply	A	N & A
2	Calueqe Pump Station	A	N & A
3	Calueqe Village Bulk Water Supply	A	A
4	Calueqe- Mahenene Repairs and Off-takes	A	A & N
5	Mahenene - Oshakati Canal Repairs	N	N & A
6	Water Transmission: Oshakati – Santa Clara	N	A & N
7	Water Transmission: Santa Clara – Ondjiva Rehab.	A	A
8	Water Supply Distribution in Ondjiva	A	A
9	Basic Sanitation in Angolan Villages	A	A

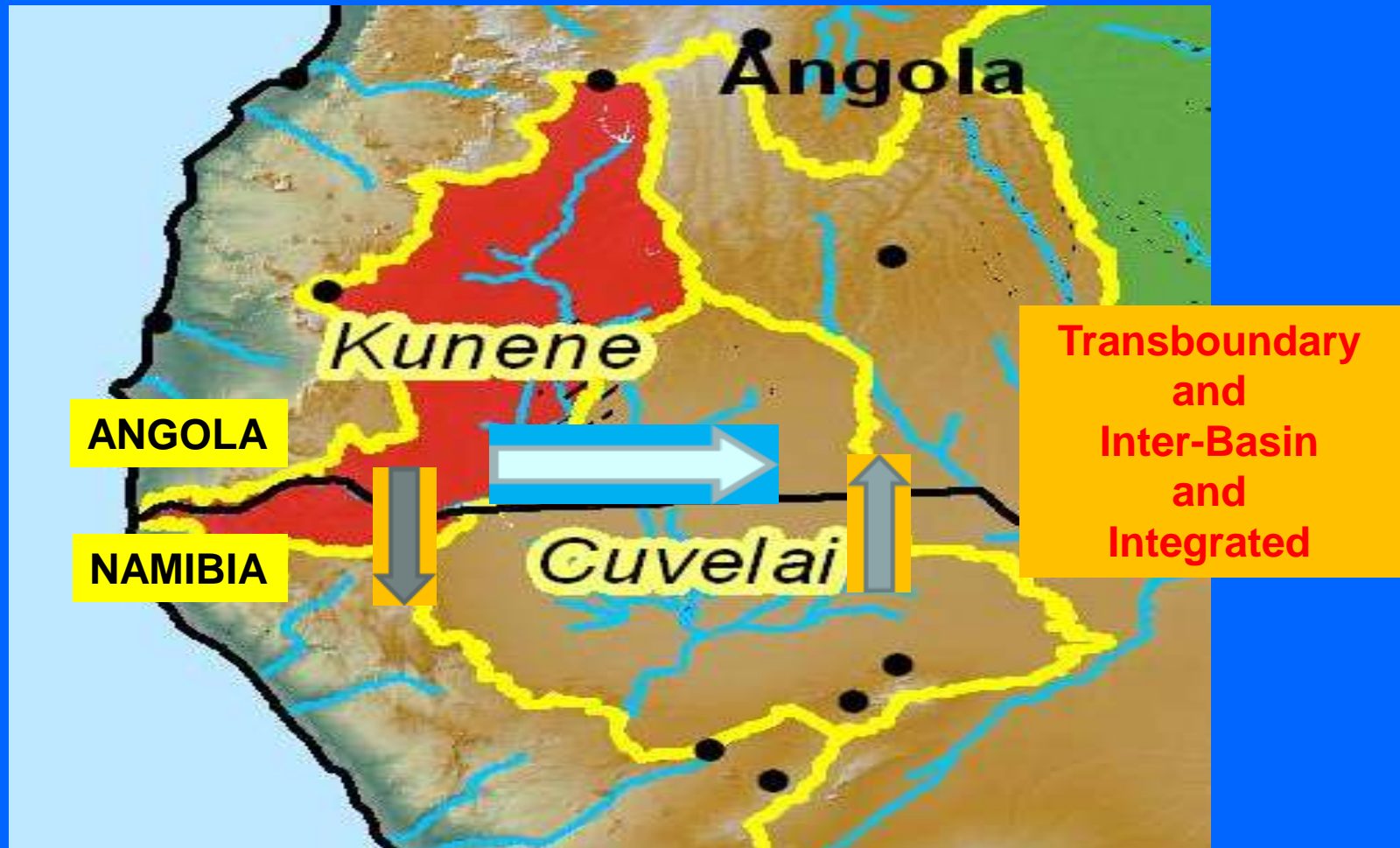
N = Namibia A = ANGOLA



Kunene Transboundary Water Supply Project: Angola and Namibia



Kunene Transboundary Water Supply Project: Angola and Namibia

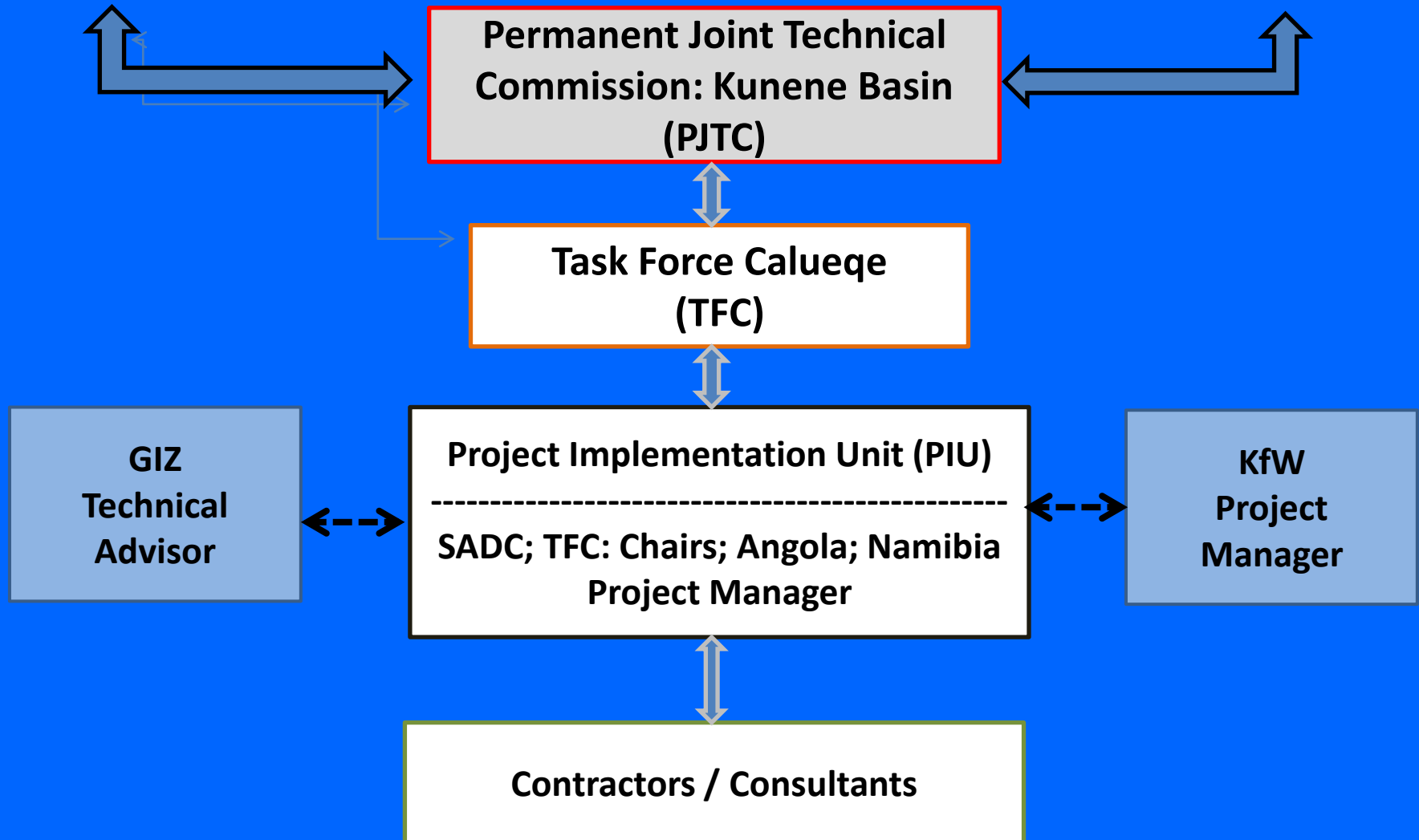


Kunene Transboundary Water Supply Project: Angola and Namibia

MILESTONES

- ☐ Xangongo - Ondjiva Water Supply Scheme (70% Complete)
- ☐ Construction for Other Component Start in Q2 of 2013 - Completion after 12 – 18 Month
- ☐ Setting-up of the Water Utility in Kunene Province is Progressing Well: Sustainability





Kunene Transboundary Water Supply Project: Angola and Namibia

CHALLENGES : LESSONS LEARNT (1)

- ❑ Process: Finalization of Agreements
- ❑ Border Crossings (Security)
 - Movement of Goods
 - Movement of Vehicles
- ❑ Immigration & Custom Matters
 - Movement of People
 - Slow Pace of Approval
 - Work Permits; Visas; Border Passes
- ❑ Slow By-in by Stakeholders (Politicians)
- ❑ Partnership: Diverse Operational Practices



Kunene Transboundary Water Supply Project: Angola and Namibia

CHALLENGES : LESSONS LEARNT (2)

☐ Lack of Continuity

- Changes in Project Management – PIU (1x) & KfW (6x)

☐ Poor Community Awareness about the Project

☐ Increase in Project Scope

☐ Increase in Project Budget

- Mobilize Additional Funding

**Delays
Risks to the Project**



Kunene Transboundary Water Supply Project: Angola and Namibia

ACHIEVEMENTS (1)

- ☐ Building Trust
- ☐ Improved Understanding of Water Supply Situation in Angola and Namibia
- ☐ Increased Understanding of River Basin Management
- ☐ Cooperation on Flood Management (Cuvelai Basin)
- ☐ Skills and Technology Transfer
- ☐ Accessing Much-needed Funds



Kunene Transboundary Water Supply Project: Angola and Namibia

ACHIEVEMENTS (2)

- ❑ A Good Model of Transboundary Cooperation
- ❑ Secured Funding - KTBWS-P (2)
 - Funding From EU-Infrastructure Trust
 - Feasibility Studies
 - Calueqe Canal Replacement (153km)
 - Appointment of Consultant (Jan 2013)



Kunene Transboundary Water Supply Project: Angola and Namibia

BENEFITS (1)

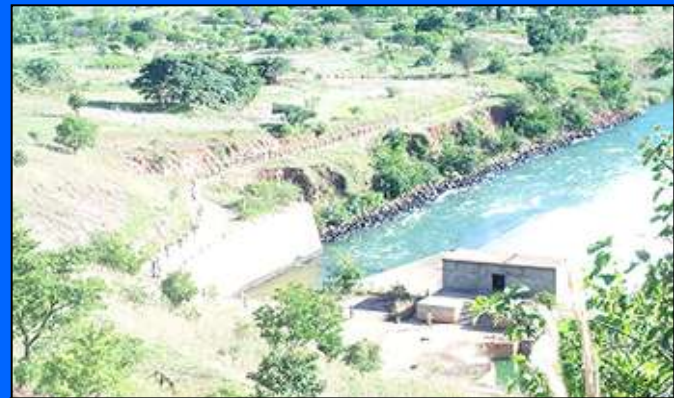
- ❑ Build Institutional Capacity in the Management of:
 - ❖ Basin
 - ❖ Water Utility
 - ❖ Transboundary Water Supply



Kunene Transboundary Water Supply Project: Angola and Namibia

BENEFITS (2)

- ☐ Maximise Benefits from the Kunene River to the Riparian States
- ☐ Saving on Cost by Sharing Water Supply Infrastructure
- ☐ Prevent Water Conflicts



Kunene Transboundary Water Supply Project: Angola and Namibia

BENEFITS (3)

- ☐ Cope with Changes in Regional Climatic Conditions (Re-current Floods)
- ☐ Improve on Water Security

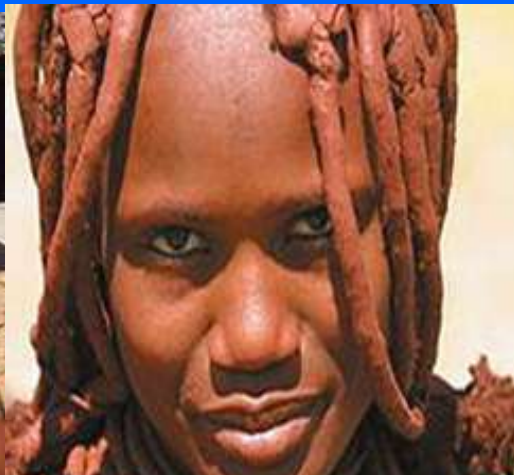


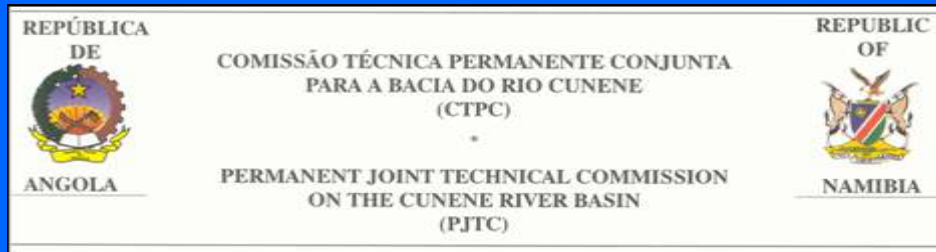


“... Kunene River is Ours”

“...and the People of the Kunene River is One”

“...Water Knows no Political Boundaries”





**THANK
YOU**

