The PATTEC Initiative

Tsetse transmitted African Trypanosomosis only in Africa

‘Poverty Insect’
Importance of T&T

- Africa = 60% of world arable land;
- Tsetse affects ~ 10 million km² (>80% of arable land);
- 38 countries;
- Trans-boundary problem;
- Disease affects human & animals.
Importance of T&T

Areas affected by 
*Gambiense* (R) & 
*Rhodesiense* (B) HAT

Livestock production zone

60% world arable land yet to be used

160 Million heads of cattle excluded from T&T infested areas
~ 50 Million at risk to be infected
~ 3 Million die annually
Impact of T&T on communities

- Predominantly on rural communities;
- Accessibility to land for agriculture in general;
- Low livestock and agricultural productivity & production;
- Reason of minimal use of draught animals in Africa (5–10%);
- Limited practice of mixed farming;

Countries living with T&T often use unsustainable control systems

Significant economic losses > USD 4.5 Billion (FAO & DFID)

Impact of T&T development / Poverty

32 of 39 IMF-assisted HIPCs in T&T affected areas

Impact of T&T development / Economy

Marcella Alsan - Tsetse suitability index, 6.14

• Tsetse reduced ability of Africans to generate agricultural surplus historically;
• People in affected areas - No use of domesticate animals, plow, less likely to be practically centralized & lower population density;
• Correlation not found where tsetse doesn't exist;
• Current economic performance affected by tsetse through channel of pre-colonial political centralization.
Solutions

HAT & AAT - No vaccine

1. HAT Trypanocidal drugs - Treatment with Eflornithine (for *T. b. gambiense* only); Melarsoprol (arsenic based)
Pentamidine (for *T. b. gambiense* only)

2. AAT Trypanocidal drugs - Sumarin, Diminazene aceturate, Homidium bromide, Homidium chloride, Quinapyramine methyl sulphate, Isometamidium chloride, Melarsenoxide cysteamine (*Mel Cy*). Reduced effectiveness and availability of Animal Trypanocides.

3. Use of Trypanotolerant breed cattle mainly Ndama cattle, widely distributed in West Africa, Good production in areas of low challenge, Small size – draught power?

4. Vector control

*Problems:* Difficult administration, inefficiency, resistance, reduced effectiveness, lack of standards, etc.
PATTEC Initiative

Adoption of Decision AHG/Dec. 156 (XXXVI), urging MS to act collectively to embark on PATTEC Initiative by African HSG, at 36th Ordinary Summit held in Lomé, Togo, July 2000 for:

- Creation of T&T free areas;
- Food security & Poverty alleviation;
- Improvement of human & animals health (One Health);
- Enhancement of livestock & agricultural production & productivity;
- Use of animal traction (draught power & transport);
- Introduction & development of mixed farming;
- Market access, economic growth
PATTEC Initiative

Aim to contributes to: (1) MDGs goals; (2) CAADP pillars; (3) Department of Rural Economy and Agriculture’s Strategic and Operational plans &; (4) AUC Agenda 2063

Establish PATTEC Coordination Technical & Scientific Office of DREA at AUC HQ

Main activities

- Advocacy, awareness creation;
- Capacity building & Training;
- Consulting & Mediating;
- Supports to MS; T&T eradication projects’ proposals & appraisals, consultancies…;
- Resources mobilization;
- Policy and standards among others.
Advocacy & awareness creation

- Elaboration and printing of Information and awareness material: calendars and planning tools;
- Contribution to TTI Bulletin;
- Articles/manuscripts on T&T (Print and electronic media);
- Note on T&T impact on Africa Agriculture and Economy, as contribution to preparation of 7th Joint AU Conference of Ministers of Economy & Finance & ECA Conference of African Ministers of Finance, Planning & Economic Development held in March 2014, Abuja, Nigeria; on "Industrialization for inclusive & transformative development in Africa”;
- Production and distribution of Advocacy materials;
- Meetings with higher officials in Angola, Cameroun, Equatorial Guinea, Kenya, Zambia, Zimbabwe, Ethiopia.
Capacity building & Training

Technical & managerial being carried out at countries’ level
• Methodology / Area wide principles;
• Field & laboratory techniques;
• Project management and execution;
• Training of Communities’ members.
Institutional: (collaboration with IAEA)
Construction of insect rearing facilities (Ethiopia & Burkina Faso)
Small insectaries (Uganda, Zimbabwe, Senegal, SA,…)
Human, material & technical supports

Capacity building and training

- 23 French speaking Experts/technicians from 17 countries in planning and execution of PATTEC projects;
- Open Source Quantum GIS application in T&T operations of 24 participants from 13 English and 15 (15) French speaking countries, during joint AU-PATTEC-IAEA-FAO Training Courses in Addis Ababa 2014 and Vienna 2015;
- Open source QGIS for 34 technicians Gabonese experts;
- Joint AU-PATTEC-FAO GIS & Data management for 28 counties' representatives of T&T projects, Kenya;
- Joint AU-PATTEC-FAO on GIS-based planning approach for 14th Ghanaians;
- AU-PATTEC staff tin new AUC internal administrative & management system (SAP); Leadership, etc.
Supports to affected countries

- **Kenya:** Follow up on cooperation between KARI-TRC & KENNTEC, (T&T eradication proposal in Galana Area); participated in Stakeholder Workshop on Research needs in Conservation areas;

- **Uganda:** Participated in COCTU in Round Table Meeting on T&T Research & interventions; follow up of SOS consortium meeting held in Khartoum, Sudan & validation & appraisal of T&T Project submitted to BADEA;

- **Ethiopia:** Received Engineer Van Moravec of Slovakia within framework of IAEA technical support; Monitoring & Evaluation, Media representatives’ visit;

- **Chad:** Participated in validation & launch of FIND HAT Diagnostic Ndjamena;

- **Gabon:** T&T project review, 2014/15 Work plan’s validation and GIS training;

- **Cameroon:** PATTEC Project review & Validation, GIS training workshop
Other activities & Studies

• Participated in
  - AU-IBAR meetings, workshops, etc. in Kenya;
  - 9th meeting of the GF-TAD – Africa SC, Burkina Faso;
  - Technical Group process of adopting common Africa positions regarding animal health standards, guidelines & recommendations, Kenya;
  - SADC – LTC meeting, Botswana;
  - CEBEVIRAH strategic plan validation’s workshop, Cameroon;
  - Elaboration of draft Policy framework on integrating T&T programmes in Rural Development Strategies;
  - GIS paper on Risk-based approaches to demonstrate presence or absence of tsetse flies: The Niger case study.
M&E, Reporting

• M&E mission to Uganda for activities, review and progress assessment (August, 2014)
• M&E mission to STEP project field operation and visit to Kality Insectarium with RFI and France 24 journalist team, filming the whole process for a future advocacy material to be published.
• PATTEC activities review during courtesy, technical or working visits in Angola, Burkina Faso, Cameroun, Chad, Congo, Ethiopia, Equatorial Guinea, Gabon, Kenya.

Resource Mobilization

- Technical mission to BADEA HQs, in support to Uganda T&T Eradication Project;
- Follow up & renew of AU-PATTEC request for two training & Capacity Building sessions’ funding by BADEA;
- Participate in 2nd conference of Arab & AUC Ministers of Agriculture Food security in Saudi Arabia (Resolution to create Tsetse free areas in 1 million Km sq by 2025);
- Participated in Arab-African Economic Forum, Kuwait (partnership to create tsetse free areas for joint agriculture and livestock programmes;
- Establishment of cooperation platform with effective resource mobilization with BADEA;
- Gift of Zero Flies Nets, by Vestergaard, to few PATTEC members states: DRC, Chad, Sudan, Ivory Coast, Niger;
- Contact with BMGF
Partnerships & Collaboration

• FAO Project Technical review & planning workshop (Secondment of FAO expert to AU-PATTEC);

• Strategic discussions on IAEA’s support to T&T affected countries/Ethiopia with Mr. Kwaku Aning, DDG-TC;

• Courtesy call of M. Jozef CIBULA, Ambassador of Slovakia to Ethiopia and AUC and discussions on support to PATTEC Initiative;

• 1st WHO Stakeholders Meetings on Gambiense HAT Elimination and Rhodesiense HAT Geneva (WHO workshop declaration on HAT elimination, in which the vector role of tsetse fly is now fully & clearly recognized);

• Visits & meetings with FIND & Vestergaard-Frandsen Merial/Sanofi and CEVA.
Partnerships & Collaboration

- Annual meeting of NTTAT Group;
- 82nd OIE World General Assembly of delegates;
- Fruitful partnership discussion between PATTEC, IAEA & CIRAD – Secondment of CIRAD scientist to AU-PATTEC;
- Initiated Partnership Mission to WHO Afro, Brazzaville (May 2014);
- Successfully participated to AU Malabo Summit on Agriculture and Food Security (June-July 2014);
- Organized a PATTEC Consultative workshop, on Strategies, Recent Technical Advances and Mechanisms for Creating Effective Partnerships in T&T Management in Livingstone, Zambia (Sept.).
Partnerships and Collaboration

- Participated to Africa Week of Innovative Action Against Hunger, Ethiopia;
- Meetings of LIDESA Process guiding Group and Continental Workshop, Kenya;
- STIPH - TAG of Eradication Investment Cases for Ochocercosias, LF & HAT Project, (New Orleans, USA);
- Host Agreement review & signing for PATTEC national Coordinators/Focal Points & SC Meetings, Harare, Zimbabwe;
- ISTRC Council meeting, Harare;
- GALVmed - Trypanocides QC meeting at IAEA in HQs, Austria;
- Regional (Mozambique, South Africa & Swaziland) T&T Project Meeting, South Africa;
- News and Renewals of MOUs with FIND, WHO, OIE, CIRDES, etc.

Management & Supervision

- Coordinated the development of the AU-DREA 2014-2017 Strategic and Operational Action Plans
- Participated in DREA mid-term review and planning retreat;
- Contributed to the Livestock Development Strategy for Africa;
- Participated in DREA management team meeting
- Regular planning & review of PATTEC Office’s activities;
- 13th PATTEC National Coordinators/Focal Points;
- 3rd SC meeting in Harare, Zimbabwe;
- ISCTRC Council members’ meeting
Important recommendations

- Resolutions of AU- MS’ Ministers of Livestock Conference, Abidjan (April 2013) -: OIE General Assembly to work & Tsetse & Non-Tsetse Transmitted Trypanosomosis & to set up - OIE Specialist Commission/ Ad-hoc Group on T&T;

- 32nd ISCTRC Conference, Khartoum (Sept. 2013) -: AU-PATTEC to consider widening its agenda on T&NTTAT;

- 2nd Afro-Arab Ministerial meeting on Agriculture & FS, Riyadh (Oct. 13) -: Arab, African & International funding institutions to contribute for the creation of one Mil. Km² by 2025 & ultimately eradication of T&T.
Important recommendations

- PATTEC Consultative workshop, on Strategies, Recent Technical Advances & Mechanisms for Creating Effective Partnerships in T&T Management Zambia (Sept. 14) -; AU- PATTEC to work on NTTTAT & seek OIE to establish an Adhoc Group on T&NTTAT;

- 12th & 13th PATTEC Coordinators & Focal Points, Dakar (2013) & Harare (2014) respectively -: AU-PATTEC to consider working on creation of T&NTTAT free areas' strategies with support of OIE & IAEA

- GALVmed Trypanocid Quality control Workshop, Vienna (Jan. 15) -: AU-PATTEC to request OIE delegates to use LACOMEV/Dakar & TDFA/Dar.
Draft resolution on the adoption of standards for certifying areas free from tsetse and non-tsetse transmitted animal trypanosomosis and their vectors

*Concerned* about the continued presence of tsetse and non-tsetse transmitted animal trypanosomosis and their vectors as well as their negative socio-economic and rural development impacts in large parts of Sub Saharan Africa;

*Recognizing* the commitment of the African Heads of State and Government to concerted efforts aimed at eradicating the scourge of tsetse and non-tsetse transmitted animal trypanosomosis and their vectors;

*Recognizing* the mandate of the African Union PATTEC to coordinate T&T intervention efforts on the African continent;

*Encouraged* by the diversity and appropriate competences of the partners that are involved in the fight against tsetse and non-tsetse transmitted animal trypanosomosis and their vectors;
Encouraged by the diversity and appropriate competences of the partners that are involved in the fight against tsetse and non-tsetse transmitted animal trypanosomosis and their vectors; Recognizing the objectives and importance of the MOU signed between OIE and the AU-PATTEC on collaboration in the fight against tsetse and non-tsetse transmitted animal trypanosomosis and their vectors; Anxious about the inefficacy, the resistance of trypanosomes to trypanocids and their widespread use by non-qualified personnel to disrupt the efforts and gains of Trypanosomosis affected countries implementing the PATTEC Initiative Concerned about the lack of OIE recognized international standards on certifying areas free from tsetse and tsetse non-transmitted animal trypanosomosis and their vectors; Inspired by the availability of technically feasible and environmentally acceptable techniques and strategic control options for the management of tsetse and non-tsetse transmitted animal trypanosomosis and their vectors;
The 21st Conference of the OIE Regional Commission for Africa:

**Endorses** the initiative to formally adopt standards for certifying areas free from tsetse and tsetse transmitted trypanosomosis and their vectors

**Urges** the OIE World Assembly to establish an Ad Hoc Group on standards for certifying areas free tsetse and tsetse transmitted animal trypanosomosis and their vectors

**Urges** the OIE World Assembly to accelerate the process of adopting standards for certifying areas free from tsetse and tsetse transmitted animal trypanosomosis and their vectors.
Stakeholders’ participation in PATTEC

Stakeholders’ participation in PATTEC
Thank you and our

Partners and relevant stakeholders

Adobe Systems

L'éradication de la mouche tsétsé en Ethiopie / France Inter

Quelle population Thomas Cherenet peut-il bien nourrir de sang ? Et bien, il s'agit de mouche tsétsé. Car oui, l'Ethiopie élève des mouches tsétsés. L'insecte ravag...

Afficher sur www.franceinter.fr

Aperçu par Yahoo

5. The Economist | The tsetse fly and development: In the ointment
   http://www.economist.com/news/finance-and-economics/21639588-how-insect-held-back-continent-ointment?frsc=dg%7Cd via @theeconomist

Communiqués de presse médias sur le projet:

Et les communiqués de presse suite à notre publication dans PNAS: