

# International Workshop: Tropical pastures in a changing environment: development of an international research collaboration in Latin America and the Caribbean

CATIE, Turrialba. April 24-26, 2019

Dave Chadwick



# Background – drivers for improved pasture management

- Resource use efficiency
- Farm profitability
- Potential large land cost
- Environmental targets
- Changes in economic climate – more from pasture
- Climate Change



# Background - current and recently completed (recent proposals) projects

- *Sustainable Futures for the Costa Rica Dairy Sector: Optimising Environmental and Economic Outcomes* (Bangor Univ/RRes-CATIE)



- *Climate Smart Forage Based Diets for Colombian Livestock* (Aberystwyth University/Bangor Univ-CIAT)



- *Sustainable intensification of forage-based agricultural systems: LivestockPlus* (CIAT/CATIE)



- Other national and international related projects

- *Forage Legumes to Improve Sustainability and livelihoods in Latin American Livestock Farms* (Bangor Univ/Aberystwyth Univ/SOAS – CIAT/CATIE)



# Objectives

- Bring together multiple experts
  - Pasture management within livestock systems
  - Grass and legume varieties
  - Silvo-pastoral systems
  - Grass conservation
  - Ruminant nutrition
  - Nutrient utilisation (fertiliser and manures)
  - Economics
  - Environment
  - Modelling
  - Industry (Dairy, Beef, Seed production)
- To.....

# Objectives


- Discuss 'state-of-the art' understanding of tropical pasture management
- Barriers to adoption
- Gaps in our scientific understanding
- Strengthen opportunities for further research
  - New collaborations
  - Multi-disciplinary (natural sciences, socio-economic, industry)
  - Identify experimental / demonstration platforms
  - Identify funding opportunities (national and international)

# Approaches

- Presentations in themes
- Q&As
- Breakouts
- ‘Active modelling’

# Outputs

- New collaborative proposal ideas
- Review paper
- Opinion/think piece
- Policy/Industry briefs



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Day 1 (April 24):

| Time          | Activity  | Presenter/leader                   | Institution             |
|---------------|---|------------------------------------|-------------------------|
| 8.00 – 8.20   | Introduction to the objectives of the workshop                                      | Dave Chadwick and Muhammad Ibrahim | Bangor Uni<br>CATIE     |
| 8.20 – 8.40   | Background to and objectives of modelling in the SusCoRiDa project                  | André Mazzetto                     | Bangor Uni              |
| 9.05 – 9.30   | Innovation in the intensification of the use of pastures in the tropics             | Daniilo Pezo                       | CATIE                   |
| 8.40 – 9.05   | Pan-tropical perspective of recent developments in pasture research and development | Chris Jones                        | ILRI, Kenya             |
| 9.30 – 9.45   | Joint Q & A after 1st group of presentations  |                                    |                         |
| 9.45 – 10.30  | Group discussions and coffee  |                                    |                         |
| 10.30 – 10.55 | Trees for forage in pastoral systems  | Max Shelton                        | UoQ, Australia          |
| 10.55 – 11.20 | New legume varieties and systems of introducing legumes into tropical pastures      | Bob Boddey                         | Embrapa, Brazil         |
| 11.20 – 11.30 | Joint Q & A   |                                    |                         |
| 11.30 – 12.00 | Group discussions   |                                    |                         |
| 12.00 – 13.00 | Lunch   |                                    |                         |
| 13.00 – 13.25 | Management strategies of silvopastoral systems in the tropics                       | Muhammad Ibrahim                   | CATIE                   |
| 13.25 – 13.50 | New forage genoplasm to improve the productivity and quality of biomass             | Mauricio Sotelo Cabrera            | CIAT, Colombia          |
| 13.50 – 14.15 | Silage and hay as forage conservation strategies in critical seasons                | Felix Ojeda                        | EEPP Indio Hatuey, Cuba |
| 14.15 – 14.30 | Joint Q & A   |                                    |                         |
| 14.30 – 14.45 | Coffee  |                                    |                         |
| 14.45 – 16.30 | Group discussions on innovations in pasture and fodder research                     |                                    |                         |

Dinner at the International Club (CATIE)

# Acknowledgements

- Organising Committee
- CATIE – for Hosting and Organisation
- Bangor University for funding via HEFCW and GCRF
- You – participation over the next few days/weeks/months





***Muchas gracias!***  
***Thank you!***  
***Diolch yn fawr!***

