



The Role of ARMFA in Road Asset Management

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Specialised Technical Session on Sustainable Transport

25 November 2019, Vic Falls, Zimbabwe

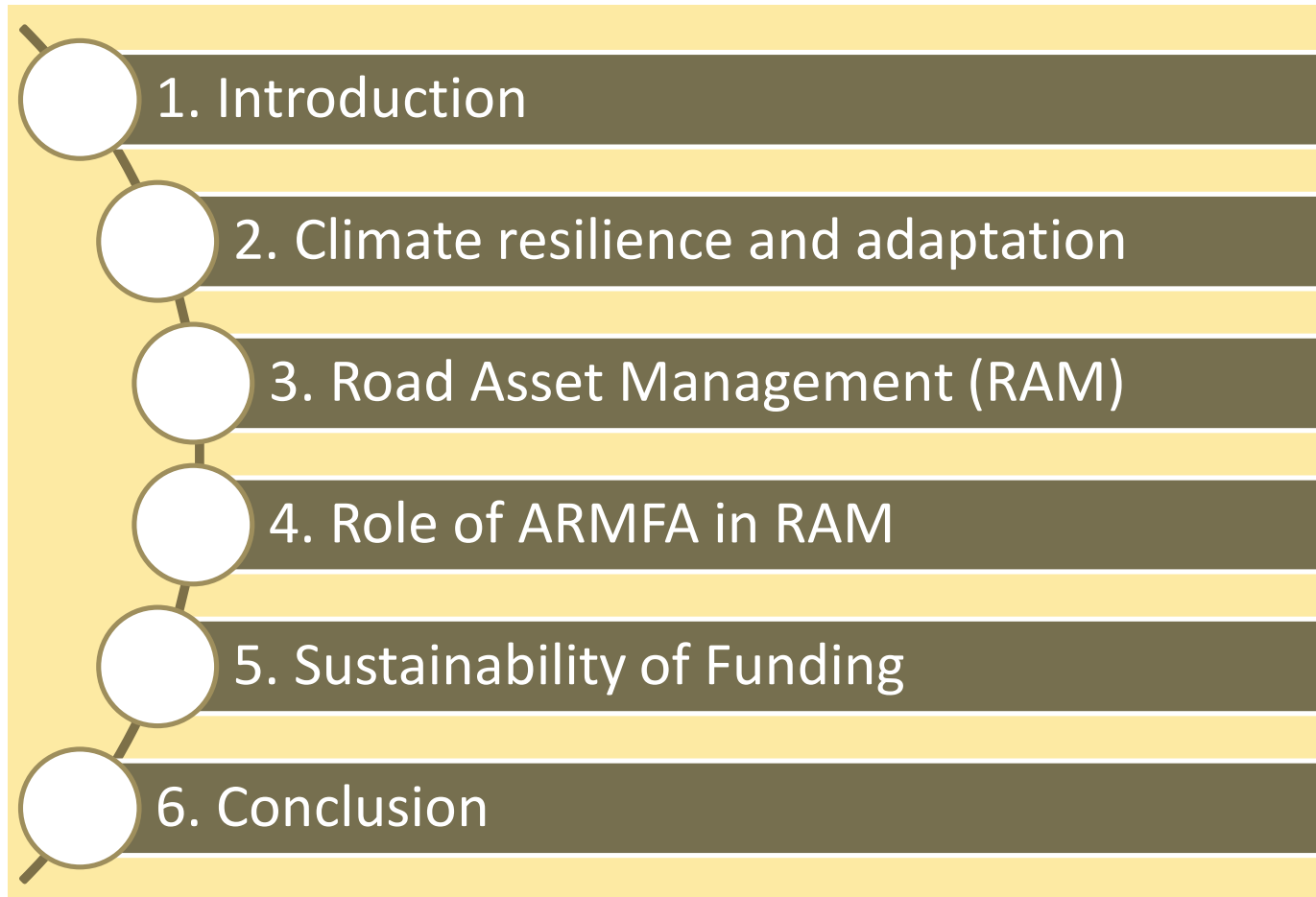
Discussion Topic:

Climate resilient Transport and the Role of Asset Management and Road Maintenance Financing

Presentation in context:

The Role of ARMFA in Road Asset Management

Presentation Layout



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1. Introduction

- The 16th ARMFA AGA held from 19 – 23 February 2018 in Addis Ababa, Ethiopia under the theme “Preserving our Road Assets for Realising Agenda 2063” concluded its Technical Workshop with 10 resolutions.

ARMFA members should consider climate change and environmental issues in the funding of construction and maintenance of roads.

ARMFA members need to implement Road Management Systems for more equitable budgeting process for road maintenance.

2. Climate resilience and adaptation

- Climate change in distribution of weather patterns over an extended period
- Due to:
 - Oceanic processes
 - Variation in solar radiation
 - External: human induced changes to natural environment



2. Climate resilience and adaptation

Impacts of climate change on the roads

- Disruption of network by storm events
- Influence of temperature differentials
- Damage to roads thro deterioration and deformation
- Flooding from rivers & inland waterways
- Erosion, slope failure, landslides
- Damage to roadside furniture by high winds.

2. Climate resilience and adaptation

- Mitigation and adaptation from a road financing point of view: need to quantify economic cost to society
- Provision of sustainable and climate resilient roads infrastructure
- New approaches to design and maintenance standards
- Consultations important with key stakeholders.
- Namibian Govt has invested in excess of USD50 over past 10 years on co-funding climate adaptation rural access roads.



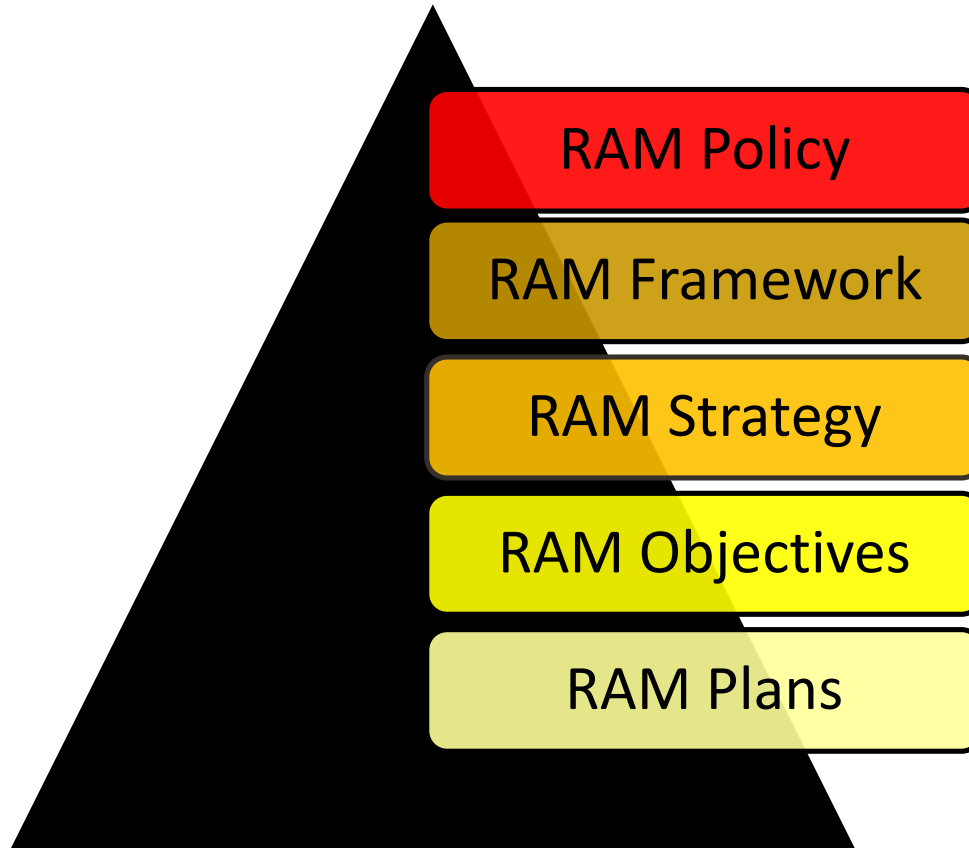
3. Road Asset Management (RAM)

1. Understanding the broader definition of RAM

2. The best practices in Asset Management

3. The benefits of Road Asset Management to a RF and RA

3. Road Asset Management (RAM)



3. Road Asset Management (RAM)

Benefits of RAM to a Roads Fund

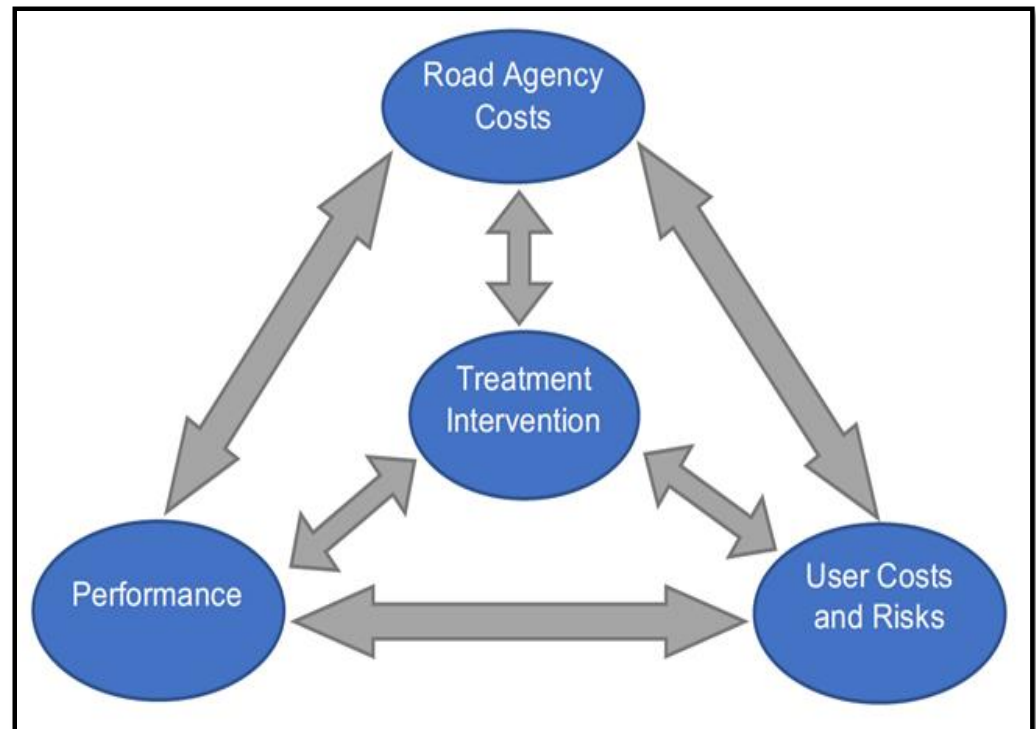
- Improved allocation of limited financial resources.
- Cost savings a result of better road works planning.
- Enhanced accountability and reporting of funds disbursed.

Benefits of RAM to a Roads Authority/Agency

- Increased focus on sustainable asset solutions.
- Alignment of road assets with services and road user expectations.
- Effective lifecycle use and optimized maintenance of existing road assets.

3. Road Asset Management (RAM)

- **Identifying roads asset needs:**
*intervention needed to close the gap between **what is available** and **what is required** to deliver the road asset management objectives and level of service.*



Source: Roads Authority of Namibia

4. Role of ARMFA in RAM

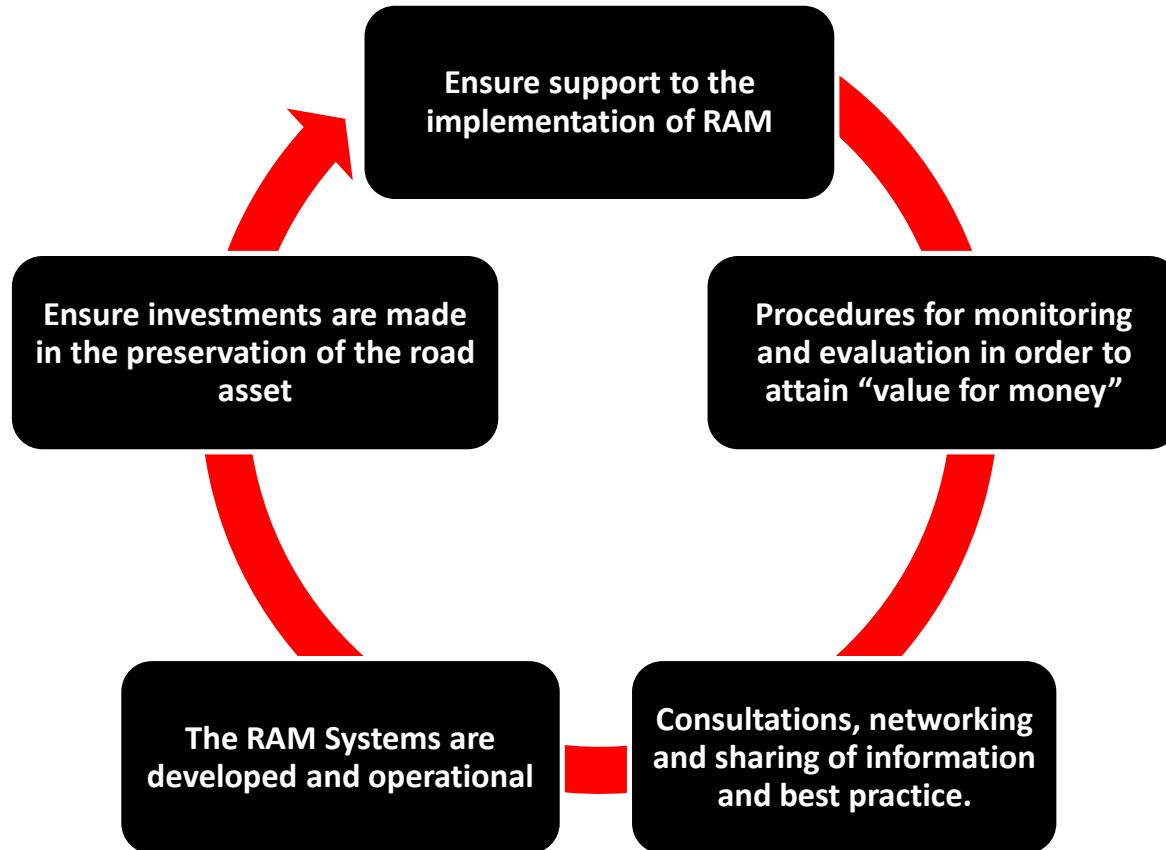
- Africa Road Maintenance Fund Association
- 18 Road Funds at inception in 2003
- Current membership of 34 countries
- Headquartered in Addis Ababa, Ethiopia
- Divided into 4 Focal groups (meet at least twice annually)
 - Southern Africa Focal Group
 - East African Focal Group
 - West African Focal Group
 - Central African Focal Group



4. Role of ARMFA in RAM

- Objectives of ARMFA
 - Promote network for exchange of experiences & info
 - Promote & strengthen ties between RF in Africa
 - Strengthen capacities of existing road infrastructures
 - Provide Support to emerging road development initiatives
 - Promote sound management of road maintenance funds
 - promote an efficient PPP & other innovative methods of resource mobilisation & financing
 - Strengthen sustainability & harmonious development of RF
- Most important: revenue sustenance & collection

4. Role of ARMFA in RAM



5. Sustainability of Funding

- Traditional funding sources
- Public-private-partnerships
- Performance-based contracting
- Private investments (equity, bonds and share capital)
- Project financing (SPV: IPO & venture capital)
- Concessions

5. Conclusion

- Change of mind-shift
- Knowledge sharing and transfer
- Training
- Partnerships and collaboration
- Stakeholders consultations
- Buy-in from decision makers



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