



Leadership and Management Programme for Senior Management of
National Meteorological and Hydrological Services
Singapore, 4 – 8 September 2023



**WORLD
METEOROLOGICAL
ORGANIZATION**

National Action for Resource Mobilization

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Resource Mobilization and
Development Partnerships

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Responsibility

Relationships

Realistic vision

Readiness

“4 Rs”

of resource mobilization at
the country level

Responsibility

Addis Ababa Action Agenda for Financing for Development (July 2015) endorsed by the UN General Assembly

“...each country has **primary responsibility** for its own economic and social development and the role of **national policies and development strategies** cannot be overemphasized.”

“...respect each country’s policy space and **leadership** to implement policies for poverty eradication and sustainable development...”

“International public finance plays an important role in **complementing** the efforts of countries to mobilize **public resources domestically**...”

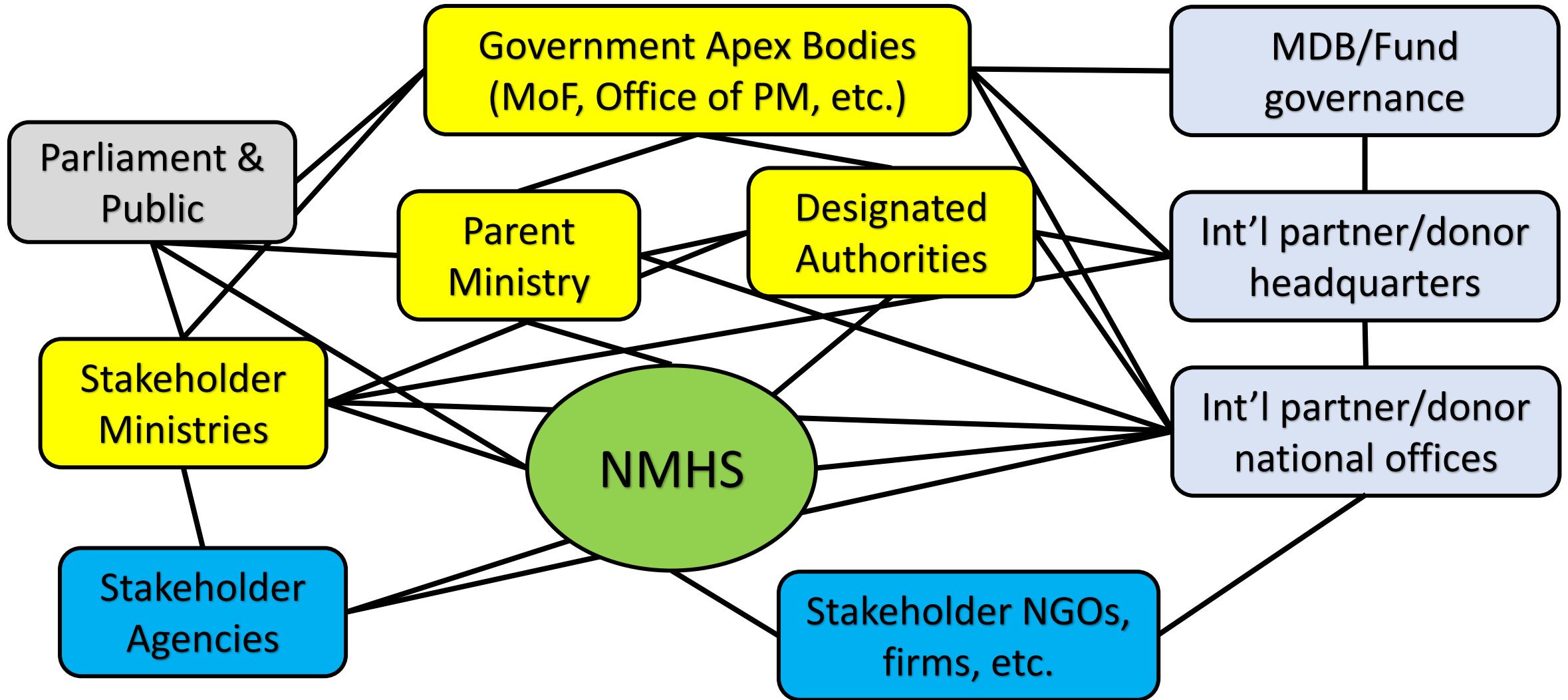
“...align activities with **national priorities**, including by reducing fragmentation...”

“...promote **country ownership** and results orientation...strengthen **partnerships** for development... increase transparency and **mutual accountability**.”

Global engagement and dialogue generates the clouds but **national action and advocacy** “makes it rain”!



Relationships



Realistic vision

- Future annual budget
- Status in government
- Ability to attract and retain qualified staff
- Staff training needs and opportunities
- Fit-for-purpose infrastructure
- **Fit-for-budget** infrastructure (“total cost of ownership”)
- Capacity and market for revenue generation
- Opportunities for co-production and public-private engagement
- **Sustainability of investments!!!**

Benchmarked Costs

Station type	Capital Costs	Annual O&M Costs
AWS	\$56,000	\$12,100
Manual upper-air	\$1.5 - \$2.0 million	\$424,000
Auto upper-air	\$0.8 - \$1.5 million	\$289,000
Doppler radar	\$2.5 - \$4.0 million	\$177,000
Hydrology (river)	\$28,000 - \$45,000	\$9,000 - \$24,700

Source: Grimes, D.R.; Rogers, D.P.; Schumann, A.; Day, B.F. (2022). *Charting a Course for Sustainable Hydrological and Meteorological Observation Networks in Developing Countries*. World Bank, Washington, DC.

Readiness

- Service delivery strategy in place or being developed
- Legal framework which clearly defines roles, responsibilities, authorities and potential role of private sector in place
- Gap assessment to identify investment priorities (Country Hydromet Diagnostics)
- Stakeholder consultations and market research to identify revenue, co-production and public-private engagement (PPE) opportunities
- Detailed modernization roadmap with costed investment plan
- Cost-benefit analysis
- Project management, fiduciary and coordination capacity
- Project structure (NMHS as implementing agency?)

Many development partners make grants available to support readiness.

WMO Support

- WMO and EW4All resource mobilization strategies currently under development (expected end of 2023).
- Guidance resources for service delivery strategy development, legal frameworks, public-private engagement, cost-benefit analysis, etc.
- Developing guidance for Members, Regional Associations and Regional Offices on resource mobilization (by end of 2023).
- Country Hydromet Diagnostics and support for detailed modernization roadmaps and investment plans.
- Support engagement with development partners, leveraging EW4All and the Alliance for Hydromet Development

Discussion

