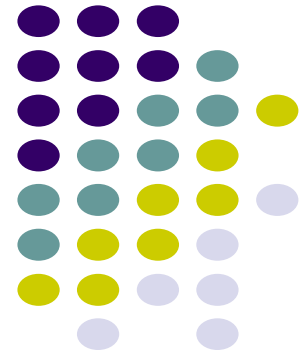
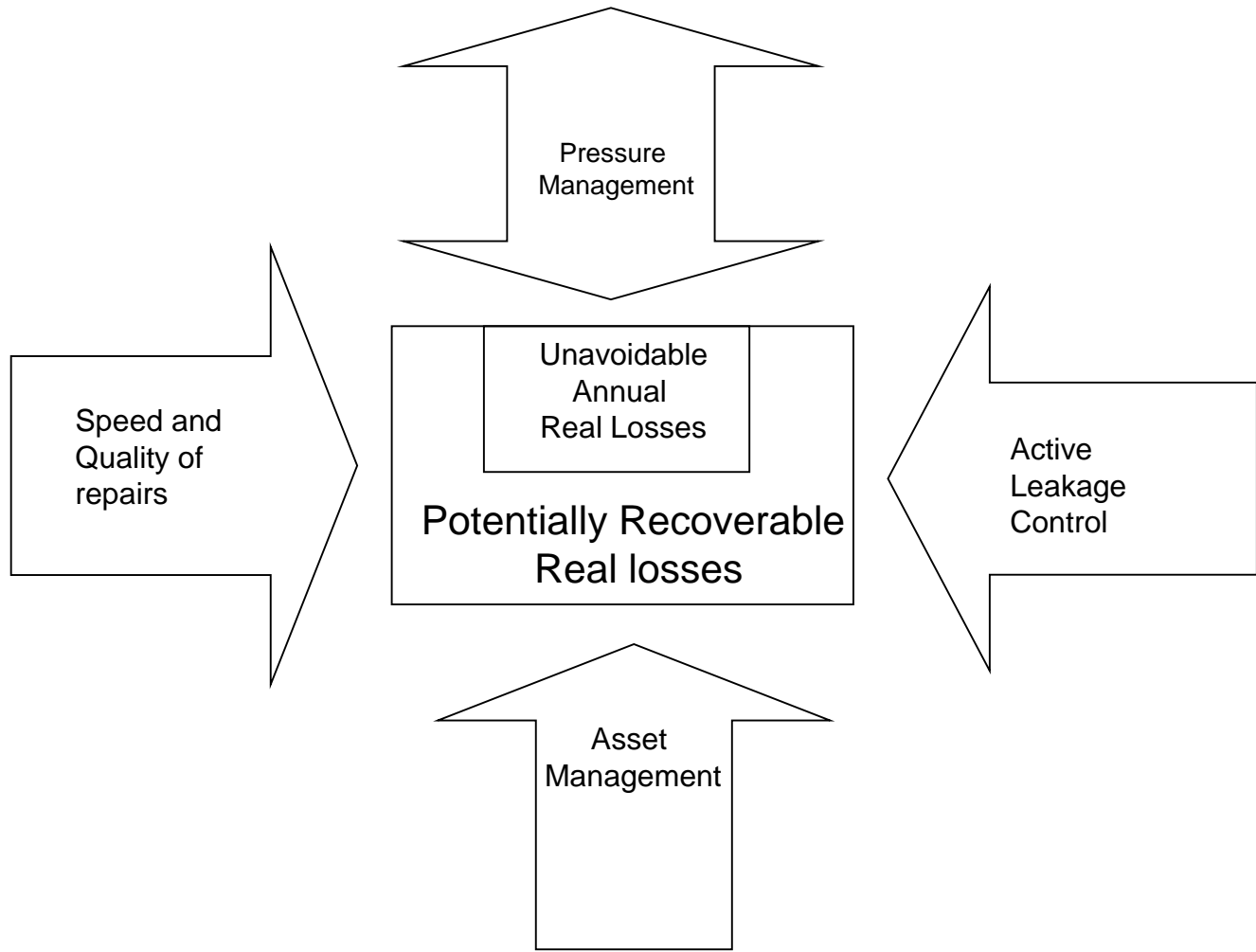


Why Palms are Important for Leakage

Jo Parker



Caribbean Regional Conference
Water Loss 2023

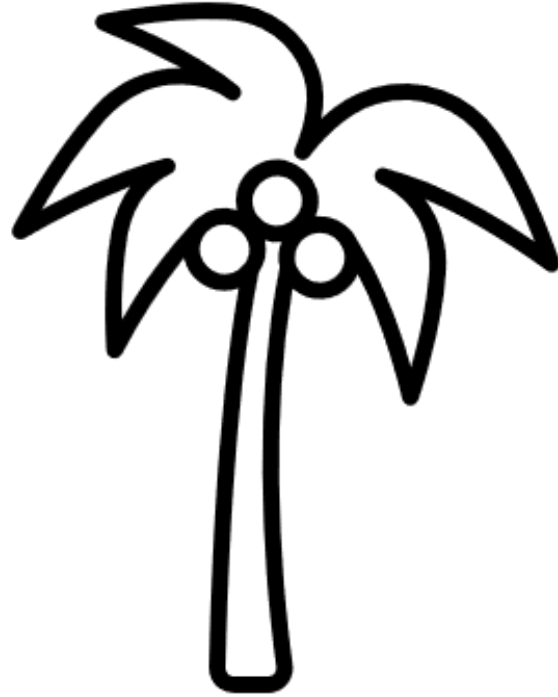


A new way of looking at this?

PALM



- Prevention
- Awareness
- Location
- Mend



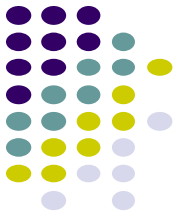


Prevent – new pipes

- How do you install your new pipes?
 - Materials?
 - Appropriate?
 - Quality?
 - Storage
 - Workmanship
 - Training?
 - Quality control?
 - Accreditation?



Competency and Accreditation



National Water Hygiene
National Water Hygiene

Status: **Approved**
Expires: 02 Aug 2023

SHEA Water
SHEA Water



Status: **Approved**
Expires: 02 Dec 2024

Safe Control of Mains Connections (Water)
Safe Control of Mains Connections (Water)

Status: **Approved**
Expires: 16 Jan 2025

Safe Control of Mains Connections (Water)
Safe Control of Mains Connections (Water)

Status: **Approved**
Expires: 16 Jan 2025

Safe Control of Mains Connections (Water)
Safe Control of Mains Connections (Water) Senior Competent Person

Status: **Approved**
Expires: 16 Jan 2025

Prevent - renovate old pipes



- What level of replacement is needed?
- Best method?
 - Traditional
 - Trenchless
- Best materials?





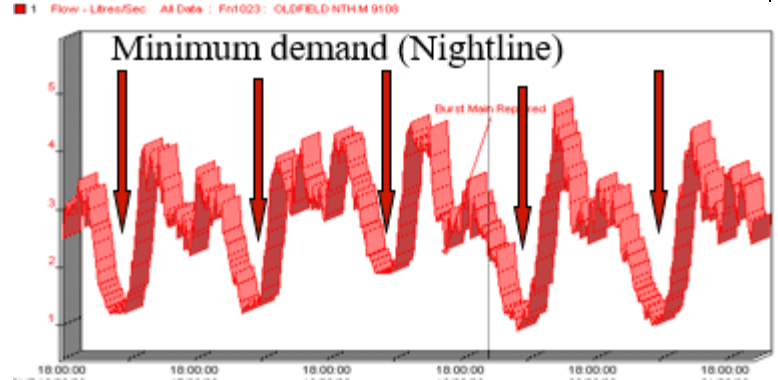
Prevent – a calm network

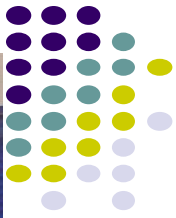
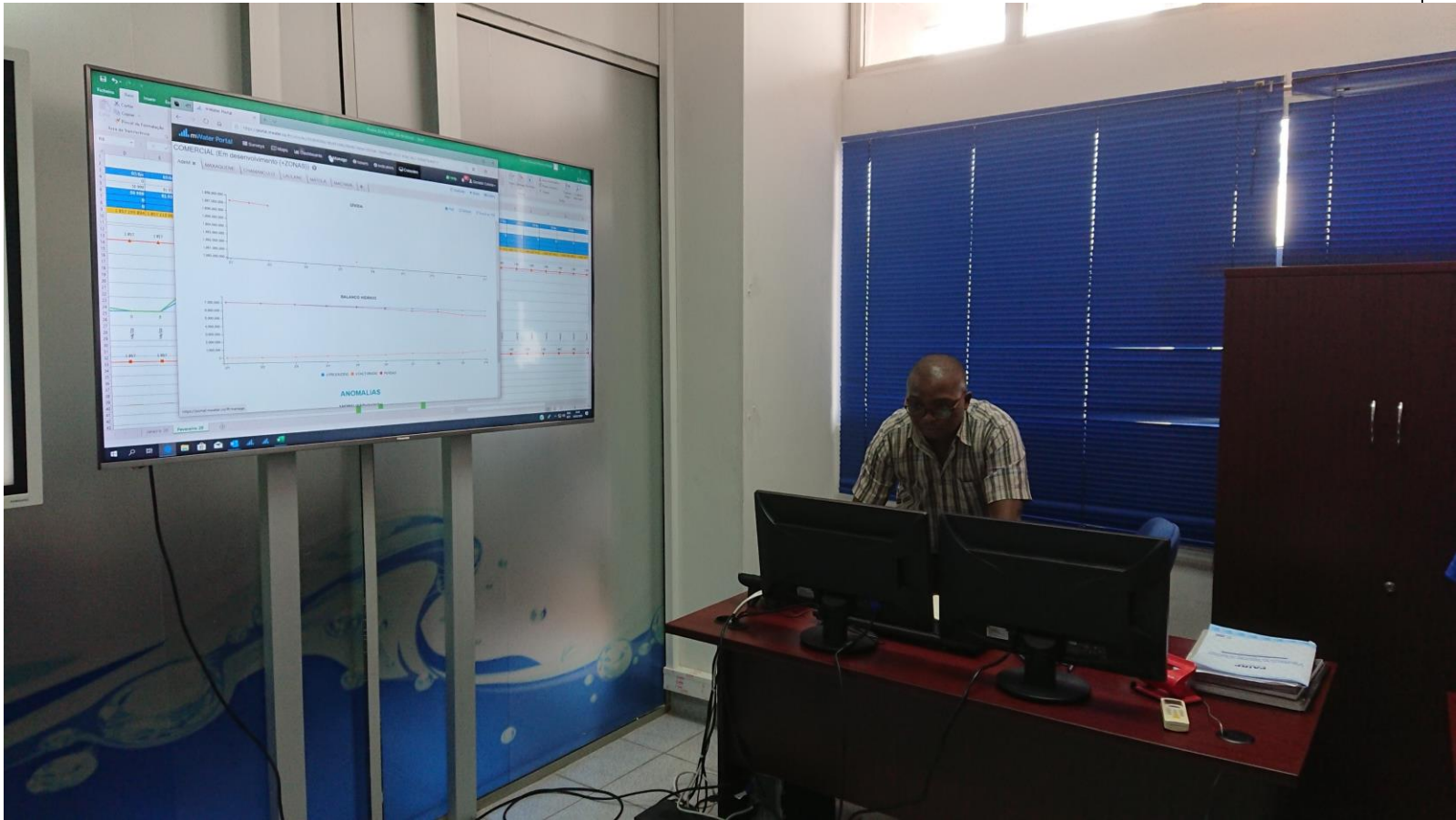
- Keep the pressure as low as possible
- Don't create pressure transients
- Check whether transients are occurring for other reasons



Awareness

- DMAs
- Permanent Loggers
- AI/Digital Twins





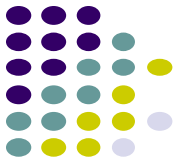
Location

- Acoustic Methods
 - Success Rate
 - Training
 - Equipment
- Non-acoustic Methods

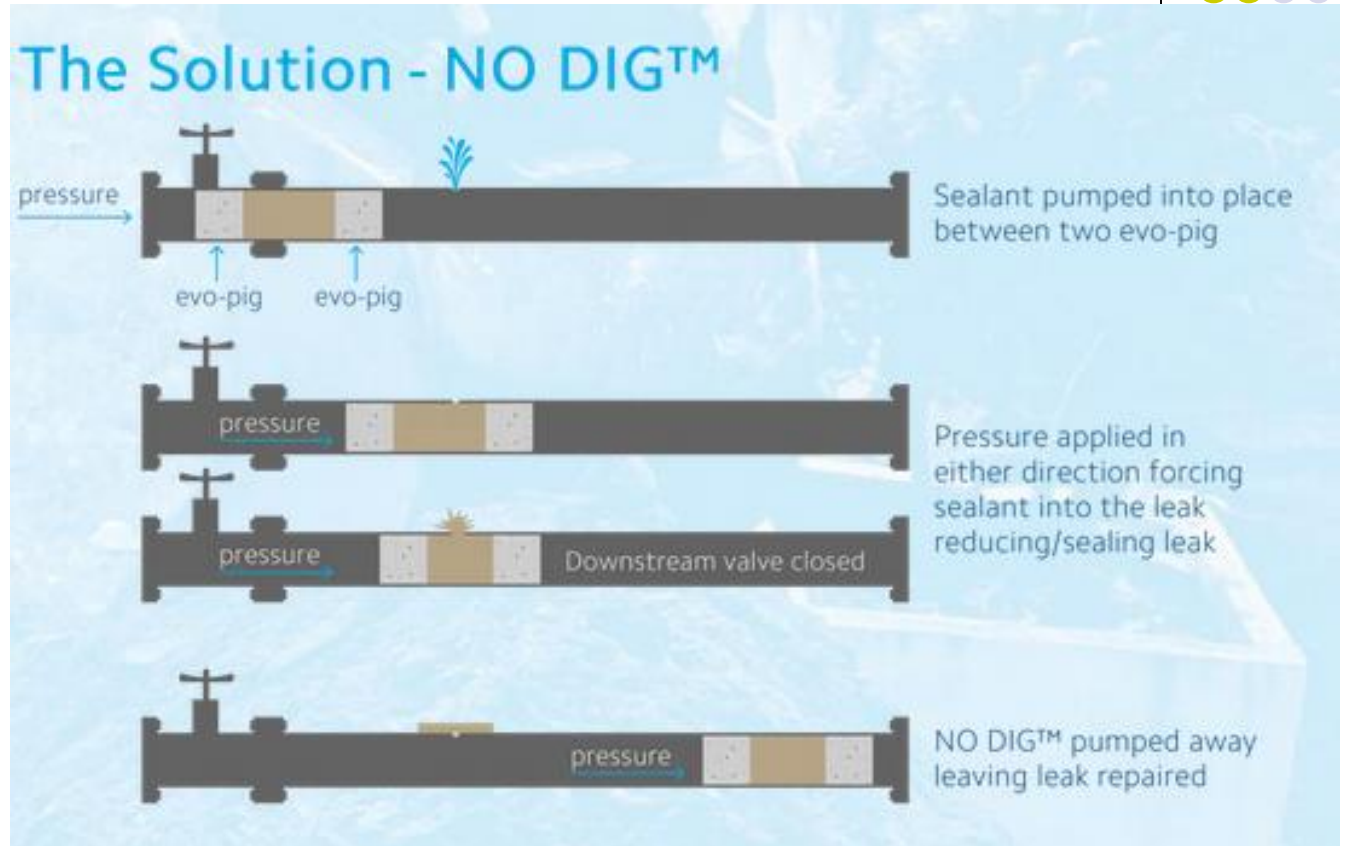


Mend

- Essential but often overlooked/taken for granted
- Highest proportion of total cost
- Training & Competence
- Quality control essential
- Good materials essential
- Quality Reinstatement essential



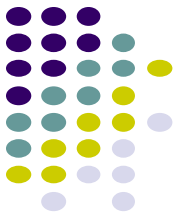
Can we mend without digging holes?



How can PALM help your leakage?



- You need to pay attention to **all parts** of PALM
- You can use it to develop a leakage management strategy
- You can use it to develop a performance improvement strategy
- You can use it to develop a national strategy



Leakage rap, leakage rap

With PALM you plan your leak attack

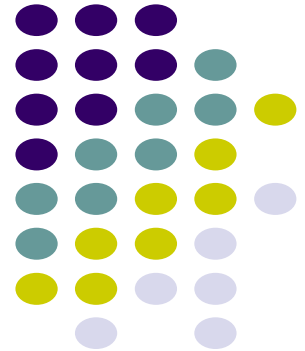
Leakage rap, leakage rap

With PALM your leaks they don' come back

Thank you

Jo Parker

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WATERSHED ASSOCIATES
TECHNICAL AND MANAGEMENT CONSULTANTS