



**Tunisian Road Safety
Association**



**Arab Road safety
organization**



Ministry of Equipment, Housing & Spatial Planning



**La prévention Routière
Internationale**

Welcome to Tunisia to the 13th PRI Word Congress & Exhibition on Road Governance & Its Impact on Road Safety:

BJA
Consulting

Achieving UN Decade of Action's Road Safety Targets



**247 Countries and 7+ billion
people**

People Bleed to death the same way all over the World



1.3 million deaths annually,

50 million seriously injured annually,

3,000+ deaths per day

90% of deaths occur in low – middle income Countries,

One of the three leading causes of death in the age group 5 - 44 years,

Estimated annual economic cost \$500 billion.



3,000 people killed every day



Global Plan

**for the Decade of Action
for Road Safety 2011-2020**

**Pillar
1**

**Pillar
2**

**Pillar
3**

**Pillar
4**

**Pillar
5**

The image features five identical golden columns standing side-by-side against a blue background with light rays. Each column has a fluted shaft, a decorative capital, and a base. Atop each column is a golden rectangular plaque with a black border containing text. The columns are positioned on a dark blue horizontal band.

**Road Safety
Management**

Infrastructure

Safer Vehicles

**Road User
Behaviour**

**Post Crash
Response**

United Nations: Decade of Action for Road Safety (2011 - 2020)



Develop pre-hospital care systems

Implement a single National emergency number

Implementation to be based on existing good practice.

Post Crash Response (Activity 1)



Economics

Culture

Legislative Framework

Infrastructure

Demography

Medical tradition

History




Geography

Epidemiology

Influences on developing an effective EMS SYSTEM



The Key objectives of an effective emergency medical system are to :-

-  **Avoid preventable deaths and disability,**
-  **Limit the severity and suffering caused by injury**
-  **Ensure optimal functioning of road crash casualties and re-integration with the local community.**

Post Crash Response



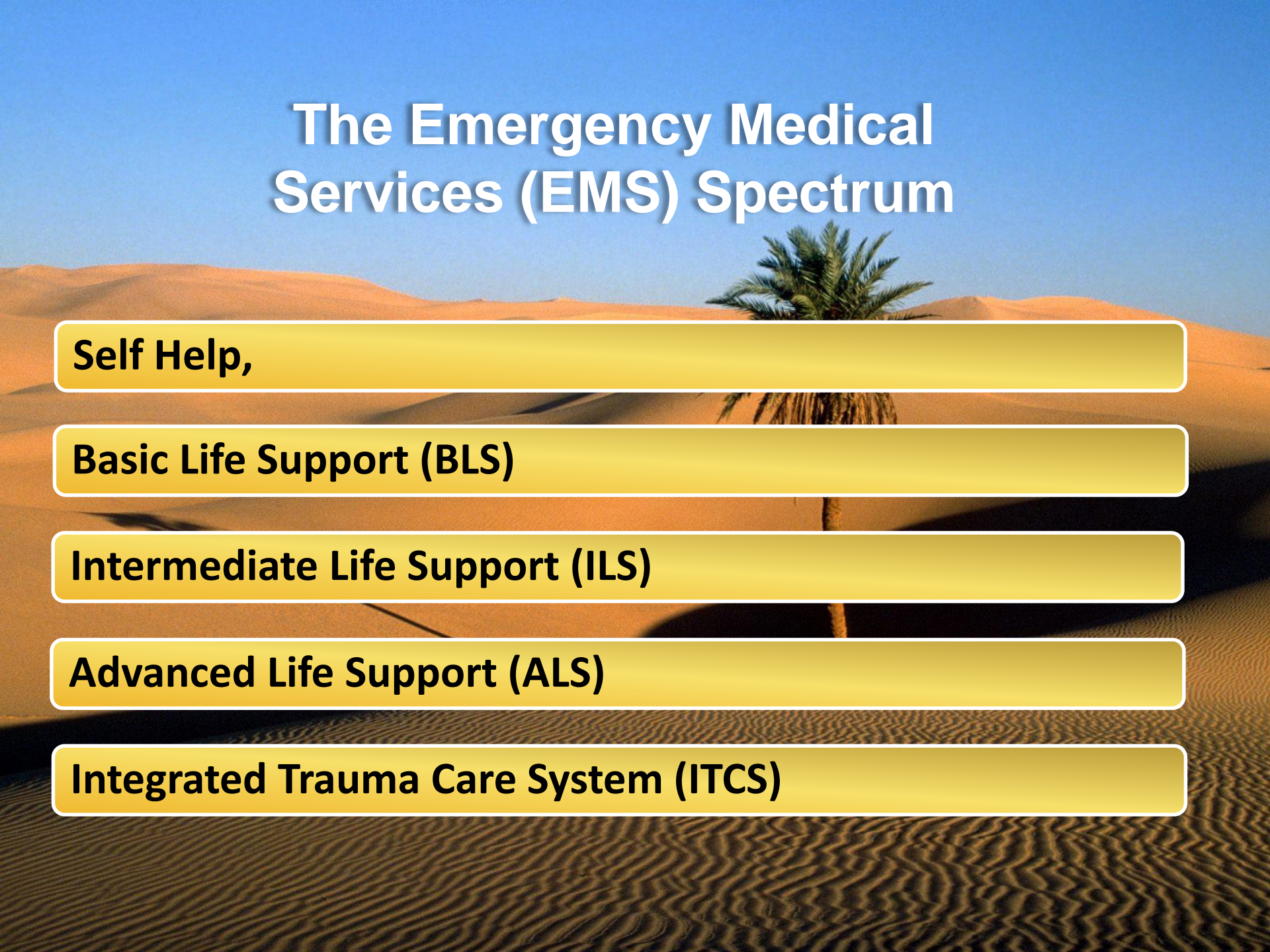
Preserve life

Prevent deterioration

Promote recovery

The International Three P's

The Emergency Medical Services (EMS) Spectrum



Self Help,

Basic Life Support (BLS)

Intermediate Life Support (ILS)

Advanced Life Support (ALS)

Integrated Trauma Care System (ITCS)



The Emergency Care Chain

Three phases of the Emergency Care Chain

Phase 1



Road Traffic
Accident



190

190 Call



EMS
Response



On Scene



Transport to
ER / Hospital

Phase 2



Hospital



ICU



General
Ward

Phase 3



Rehabilitation



Discharge
Home

Phase 1



Road Traffic
Accident



190

190 Call



EMS
Response



On Scene



Transport to
ER / Hospital



Self Help
and Local Clinic



Self Help
and Home

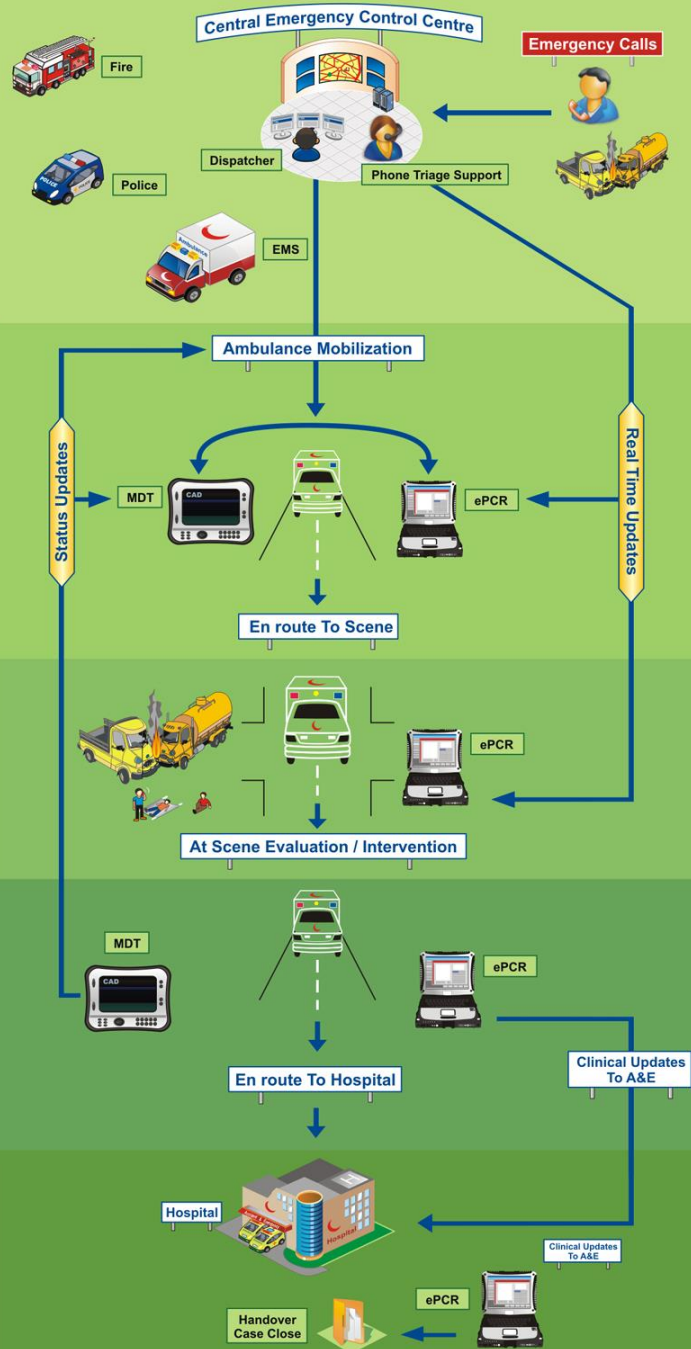
Delivering a Basic Pre Hospital Emergency Care System



- Airway,
- Breathing
- Circulation



The Golden Hour and Platinum 10 minutes



EMS Call Lifecycle

Call Taking

Mobilization

At Scene Activity

To Hospital Journey

Pre Arrival Updates



An Integrated Response



How has technology assisted the Post Crash Response?



Improved Communications,

Faster Response Times,

Enhanced clinical delivery and treatments.

Technology Impact



Satellite tracking,

Data transmission

Global Positioning System (GPS),

Real Time Video

Vehicle tracking,

Digitised mapping.

Communications

Use of software applications in respect of :-

- Resource optimisation,
- Resource distribution,
- Simulation,
- Computer Aided Dispatch,
- Call Triage.



Faster Response Times



Enhanced Clinical Delivery





Enhanced Clinical Delivery





Innovation in EMS



The Ambulance Drone



INX Stretcher



BJA
Consulting

Any Questions?