

ICAO Inter-regional SAR Workshop 2019

Technology in support of SAR

Dave Edwards

ICAO/IMO Joint Working Group

Technology in support of SAR

- ◆ SAR relies upon technology to provide efficient, effective SAR services.
- ◆ SAR services/authorities need to be proactive in making use of new technology AND phasing out old technology.
- ◆ Complicated technology may **not** be helpful!
- ◆ Basic, simple is often appropriate

Practical Discussion and Advice on example technologies

1. **UAS/RPAS (unmanned aircraft systems/remotely piloted aircraft systems – Drones)**
 - **Helpful for SAR; is a drone accident SAR**
2. **Night vision devices**
3. **Search planning computer programs**
4. **Ship reporting systems, including Long-range identification and tracking (LRIT) and Amver**

Practical Discussion and Advice on example technologies

5. 406 MHz distress beacon (ELT, EPIRB, PLB)
 - Very helpful for SAR; high false alarm rate because of user; installation issues; registration
6. Autonomous Distress Tracking (ADT), ELT(DT)
7. Cellular phone and VHF radio
8. HF radio and automatic link establishment (ALE)



Practical Discussion and Advice on example technologies

9. Satellite phone – Inmarsat, Iridium,
commercial companies

10. Technologies of interest to **You**