



airmet

REAL-TIME DUST MONITORING: SOLUTIONS FOR TODAY AND
TOMORROW



WEBINAR OUTLINE



Current personal dust monitoring techniques



The potential of real-time personal dust monitoring



Addressing technological limitations and envisioning future opportunities in personal monitoring



Static monitoring techniques: opportunities and solutions



Interactive discussion: have YOUR say in shaping the future of dust monitoring and customer design opportunities.



Q & A session

CURRENT PERSONAL MONITORING TECHNIQUES

- Gravimetric filter method using sampling pumps



- Personal real-time dust monitors



- Personal real-time dust monitors inclusive of gravimetric filter collection



POTENTIAL OF REAL-TIME DUST MONITORING

- Greater understanding of where your exceedances occur with time stamped data
- Can be paired with video capture software such as NIOSH Evade program
- Greater ability to relate data to the task/location where exceedances occur
- Worker exposure limits are reducing and there is a need for greater visibility in real-time



ADDRESSING TECHNICAL LIMITATIONS OF DUST MONITORING

- Gravimetric filter method requires lab analysis which can take time.
- Real-time dust monitoring can't yet accurately speciate the dust type. i.e. RCS, DPM, & coal dust.
- Integrated filter and real-time sensors can be bulky and subject to time lag results.



CONCRETE CUTTING CASE STUDY



- Plumbing construction work created an opportunity to test the DustCanary
- Tools such as dry cutting and jack hammer usage created respirable dust concentrations
- The room was a small bathroom with no extraction or ventilation of the area
- The crew were wearing respiratory protection equipment during the exercise

STATIC MONITORING TECHNIQUES: OPPORTUNITIES AND SOLUTIONS



STATIC MONITORING TECHNIQUES: OPPORTUNITIES & SOLUTIONS

- Static monitoring is typically used for monitoring perimeter emissions or confined locations such as tunnels, factories, warehouses etc.
- Static monitors provide excellent opportunities to create control loop systems
- Cloud interfaces and real-time alerts provide valuable insights.



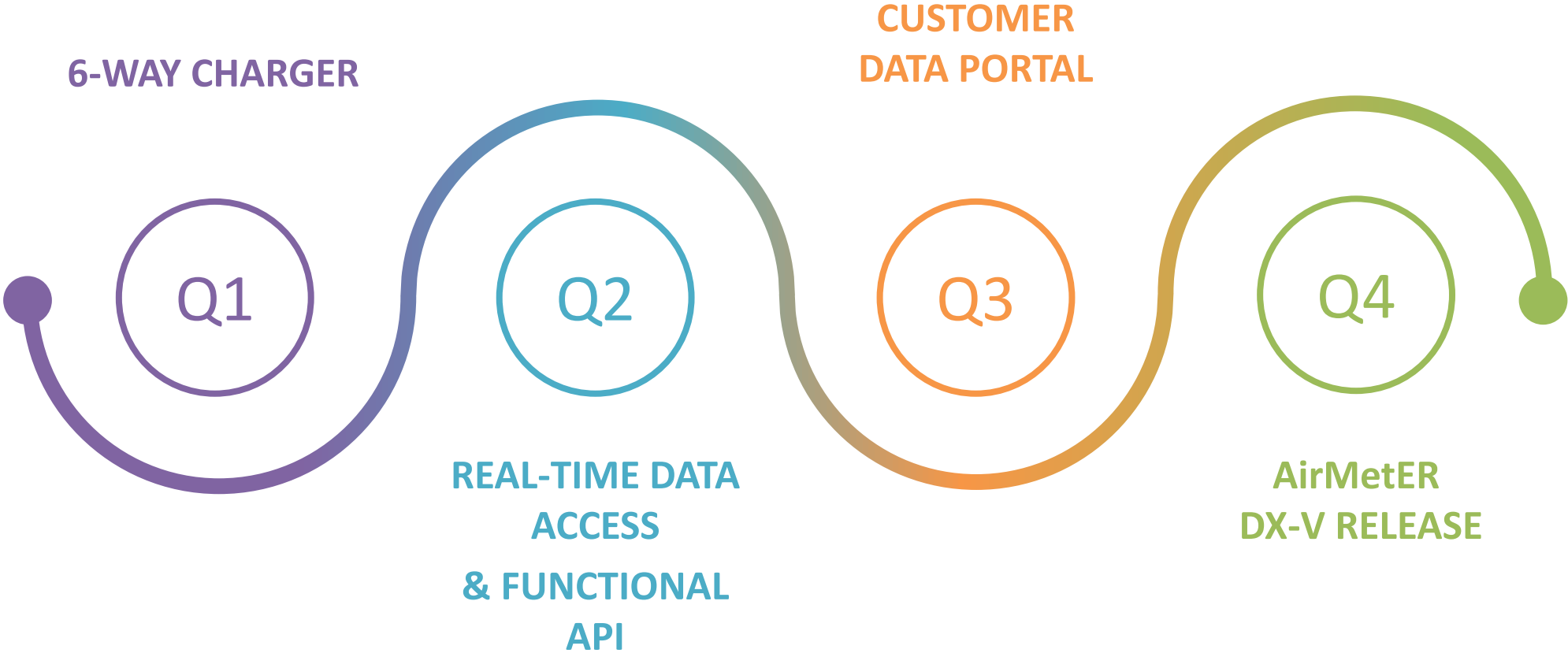
MEET THE ENGINEERED SOLUTIONS TEAM

- Who we are
- What we do
- What we are passionate about





DUST MONITORING ROADMAP





CONTACT US

For any further questions or enquiries, feel free to contact your presenters on the details below:



Andrew Marom
National Sales Manager
0409 412 897



Shane Lenton
National Engineering Manager
0419 877 148

Alternatively, reach out to your local Air-Met Scientific office at any of the below:



1800 000 744



sales@airmet.com.au



www.airmet.com.au