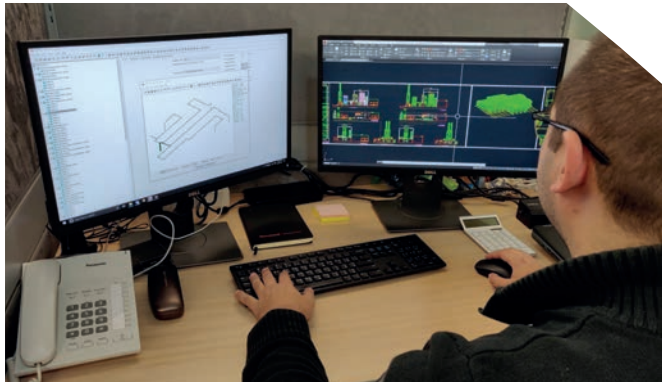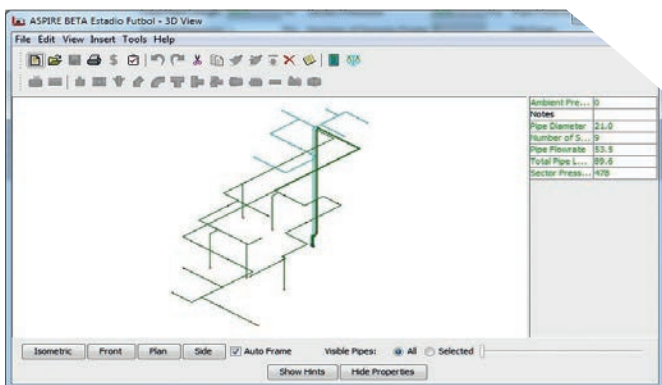## ADVANCED DETECTION GLOBAL SERVICES (ADGS)

ADGS offers unparalleled applications, design, consulting, training, and technical services for the entire Xtralis, System Sensor, and KAC Solutions:

- Aspirating Smoke Detection (ASD)
- Aspirating Gas Detection
- Open Area Beam Smoke Detection
- Wireless Smoke Detection

DESIGN SERVICES

- Analysis and review of project & design documents
- Quick initial design solution based on customer needs
- Detailed and comprehensive design package for all systems including: engineering layout, calculations, and, final bill of materials (BOM)
- Advanced design package including Building information modeling (BIM) and computational fluid dynamics (CFD) output files
- Consultation with authorities having jurisdiction (AHJ), insurers, consultants, architects & engineers to:
  - Propose new solutions based to improve current industry standards
  - Provide expert assessment of existing fire codes worldwide

DESIGN EXPERTISE

Our team is uniquely qualified to deliver solutions according to regional codes and standards, such as NFPA 72, NFPA 76, BS 5839, BS 6266, and FIA COP.

Understanding the layout of a required system and designing it for optimal protection has a learning curve that ADGS design team is ready to address.

SIMPLE HANDOVER FOR INSTALLATION

Who better to design and provide technical support than the company that manufactures your system?
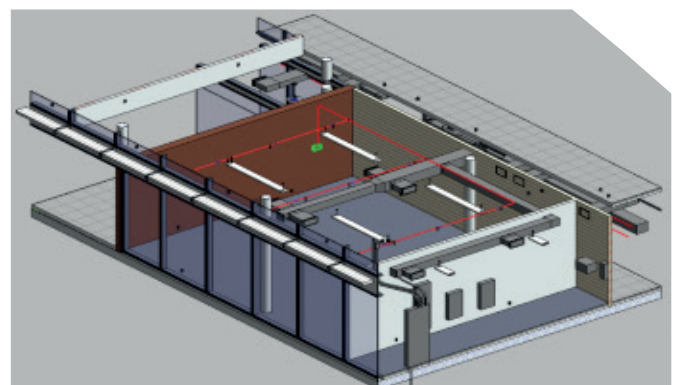
Following the standard steps from design stage up to handing over will guarantee better efficiency for your system including:

- Gather site information
- Select appropriate system
- Select appropriate type and model
- Follow the right code for your region
- Plan and map system items (engineering layout)
- Calculate design performance using appropriate tool
- Generate required output data to start installation

AUTODESK® REVIT BUILDING DESIGN

ADGS uses Autodesk Revit building information modeling software for advanced design package.

Our team provides libraries for the Xtralis, System Sensor, and KAC product ranges that can be integrated with Revit to allow engineers to plan and track various stages in the building's lifecycle, from concept to construction and later demolition.

SOLUTIONS FOR SMOKE DETECTION IN A WIDE RANGE OF INDUSTRIES

By working with ADGS throughout the design stage, we can ensure both a cost-effective and fire safe building, and that on-going business activities and building system maintenance are considered.

For instance, ADGS designed a VESDA-E VEA solution with flexible tubes in the largest indoor theme park in the Middle East which minimized installation cost and time while delivering centralized maintenance capabilities, so business activities are never disturbed.

CONSULTING

ADGS consultancy services deliver cost effective, code compliant, and innovative fire systems, including:

- Fire detection system design appraisal
- Advice on regulation and code compliance:
  - Support during the regulatory authorities' approvals process
- Fire simulation and modelling to evaluate and
  - Optimize fire detection system performance
- Guidance on designing solutions that address
  - Maintenance requirements and reliability challenges in harsh environments
  - Advice on integrating detection and other systems for the protection of critical equipment

APPLICATIONS ENGINEERING AND PEROFRMANCE-BASED DESIGN

ADGS Applications Engineers provide consultancy services that deliver cost-effective, code compliant, and innovative fire systems, including:

- Fire detection systems design
- Advice on regulation and code compliance and support during the regulatory authorities' approvals process
- Fire simulation and modelling to evaluate and optimize fire detection system performance
- Fire risk assessments

- Guidance in designing solutions that address maintenance requirements and reliability challenges in harsh environments
- Advice on integrating detection and gaseous suppression systems for the protection of critical equipment
- Developing risk-informed, performance-based designs to:
  - Address restrictive codes and standards and non-compliance issues,
  - Incorporate flexible design features for effective emergency response planning,
  - Optimize the use of available commercial building space, while meeting life safety objectives,
  - Achieve elegant architectural design.

TRAINING SERVICES

ADGS offers flexible, instructor-led, expert training services in several formats:

- 1, 2, or 3-day training
- At your facility or ADGS regional facilities
- Customized or standard training
- for any ADGS-supported solution

ADGS training will ensure your staff is proficient at the design, commissioning, management, and testing of any of our life-safety solutions. As training experts with decades of training experience, we have taught tens of thousands of students to expert-level proficiency in advanced detection technologies.

NEED ADDITIONAL INFORMATION?

- E-mail: DesignCenter@xtralis.com
- Submit request web form via www.xtralis.com/adgs

KAC   System Sensor   xtralis