BLD121775 - Developing a Drawing for Facilities Management (Areas)

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Introduction (…who is this guy?)

- Owner/lead consultant – **CADFMconsultants**
- Prolific blogger – owner of the blog, **Not Just CAD!**
- Writer – AUGIWorld, Cadalyst, Redshift
- Content Author – **LinkedIn Learning** (previously Lynda.com)
- **AutoCAD** & **Revit** consultant and trainer
- **29 years** of AutoCAD experience
- **8 years** of Revit experience
- **Singer/Songwriter** – first album released on iTunes – June 2012
- **Second** album being written for release in 2018
- Has been known to sound like the **Geico Gecko**

Keywords: **AREAS & XDATA**

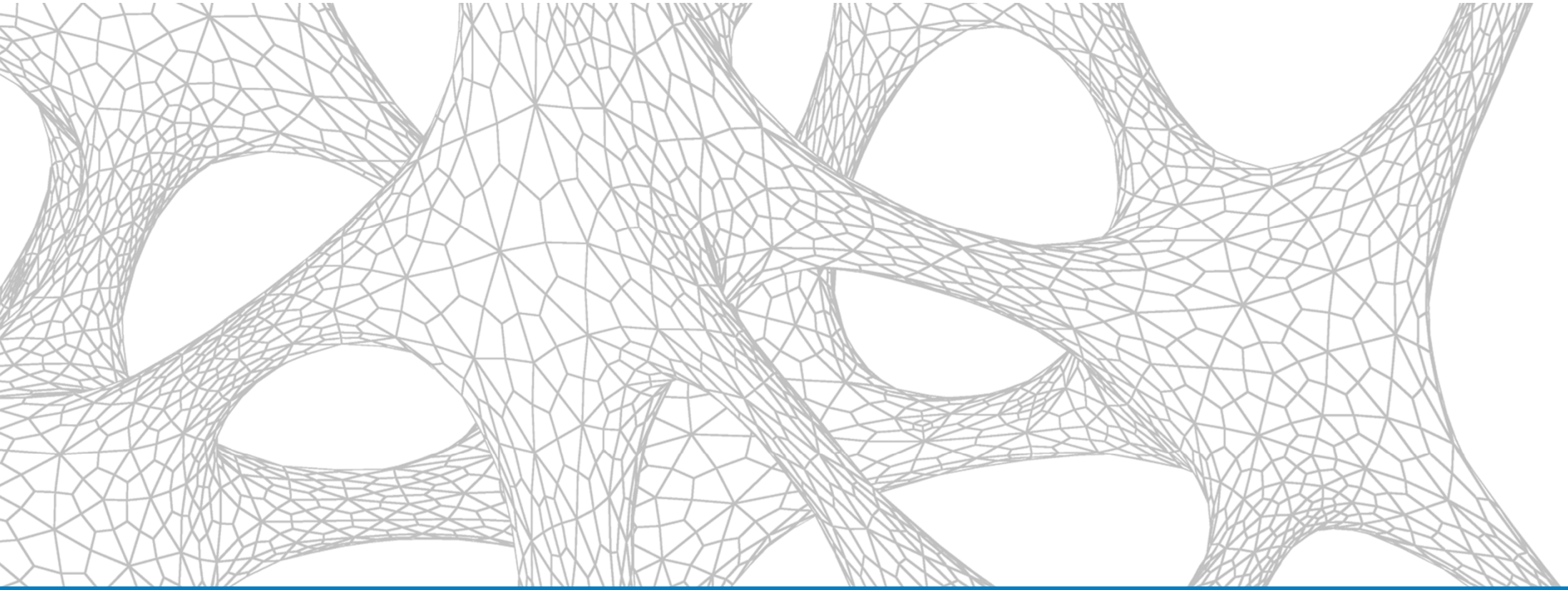
Class Summary

- High-quality facility drawings in AutoCAD software give organizations the information they need to assign, redesign, and reallocate space, whether for manufacturing or offices. When it comes to computer-aided facilities management (CAFM), there's one tool: AutoCAD. This class will show you the skills you need to use AutoCAD to calculate available area, understand which percentage is usable space, and export drawings and data for analysis and presentation. Concentrating on the basics, this class will guide you through a simple CAFM project, letting you learn at your own pace and develop your skills as you go. Shaun Bryant will show you how to set up drawings, define and measure areas, set up facilities area tables, and annotate drawings. By the end of the class, you'll be able to export the information to applications such as Microsoft Excel so that you can analyze the data in a tabular format.

Key Learning Objectives

At the end of this class, you will be able to: -

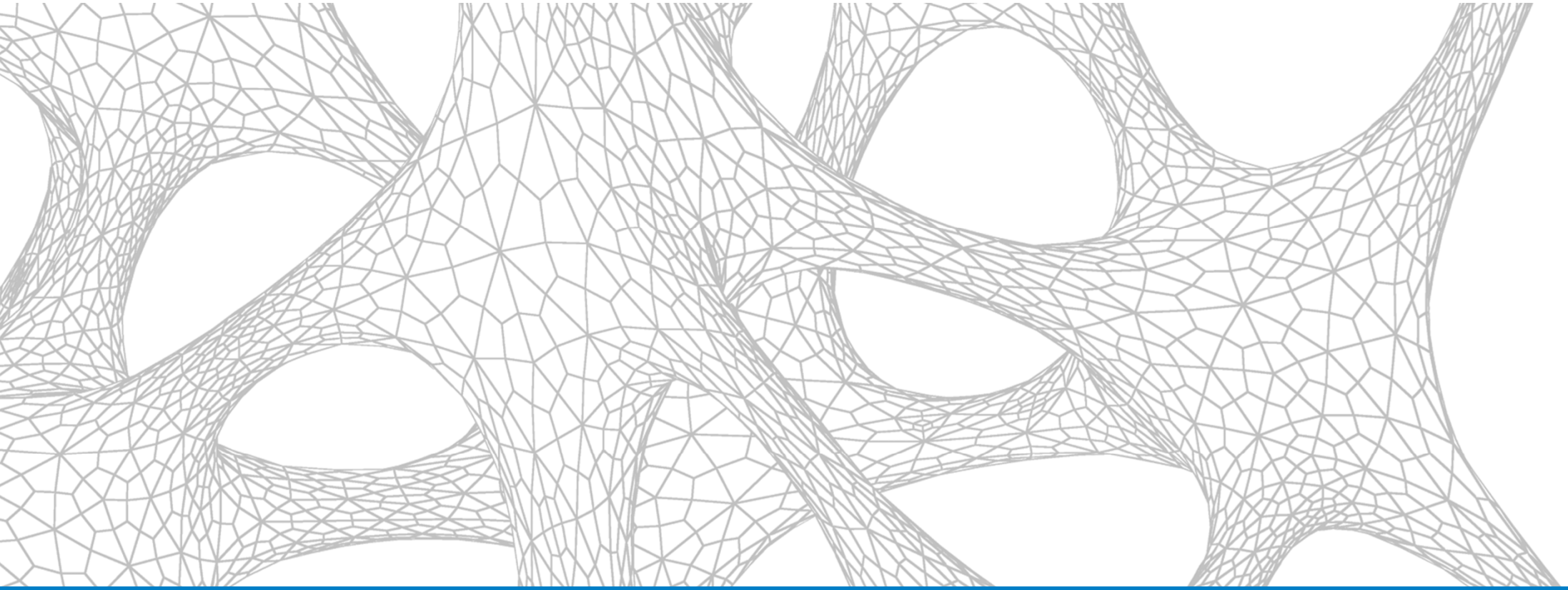
- Learn how to set up a facility drawing using external references (XREFs)
- Learn how to use polylines and xData to define areas
- Learn how to set up area table styles
- Learn how to find and link area xData to the relevant area table



An introduction to CAFM

An introduction to CAFM

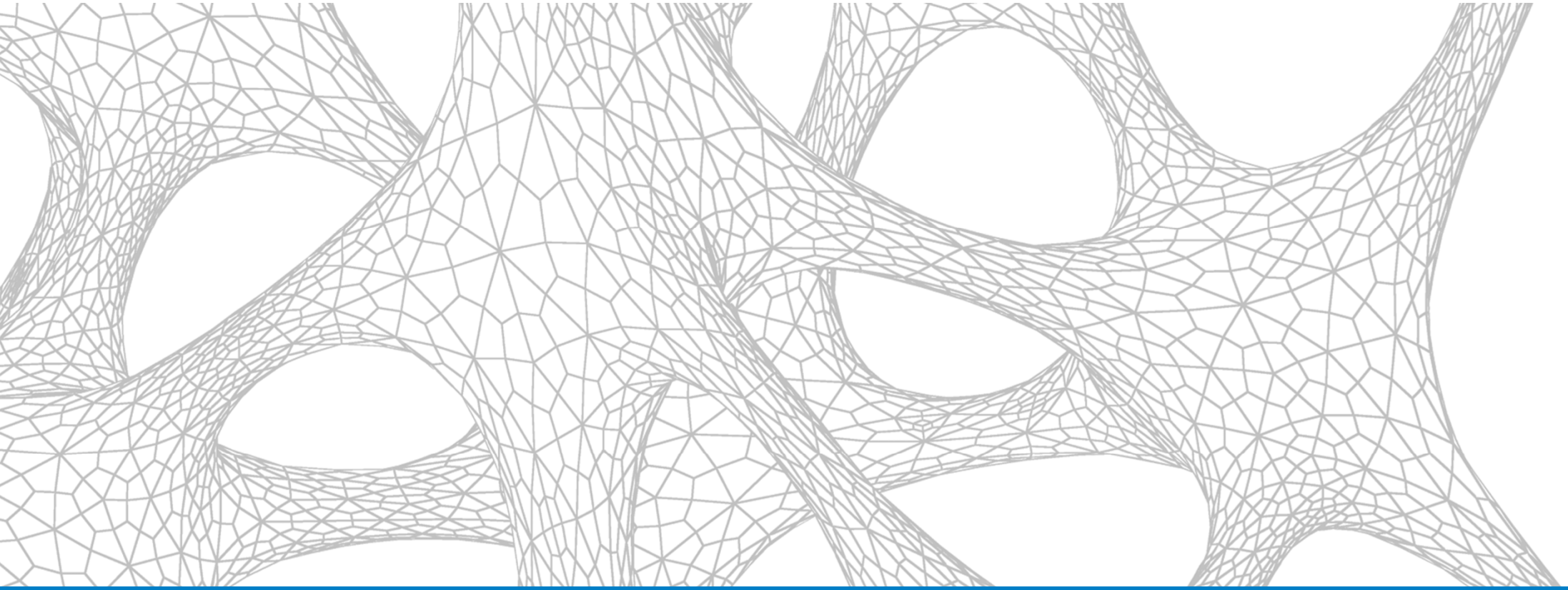
- **C**omputer **A**ided **F**acilities **M**anagement
- What **IS** Facilities Management?
- Using space & area management in AutoCAD
- Managing your spaces



Setting up a facilities drawing

Setting up a facilities drawing

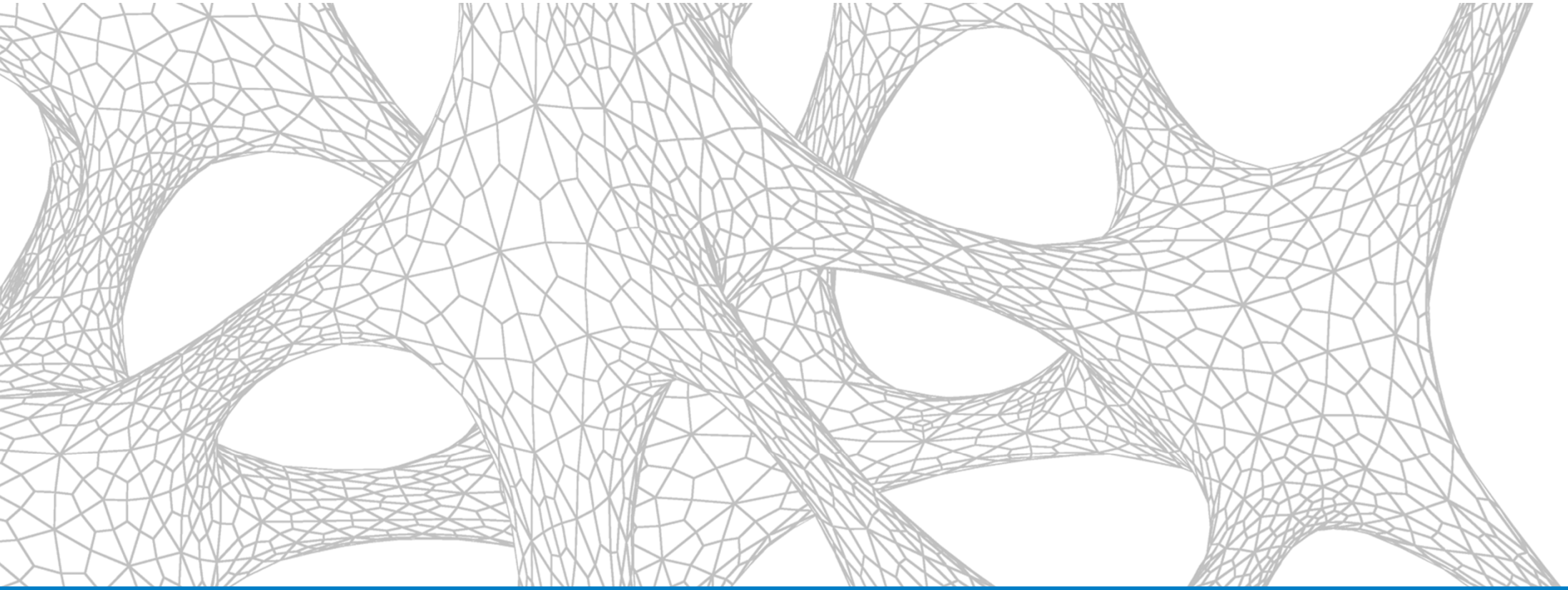
- Using a proprietary titleblock
- Working with the structural drawing (FP)
- Creating your facilities drawing (FM)
- Referencing in the structural drawing (XREFs)
- Managing XREF layers (RENAME)



Getting your FM settings right

Getting your FM settings right

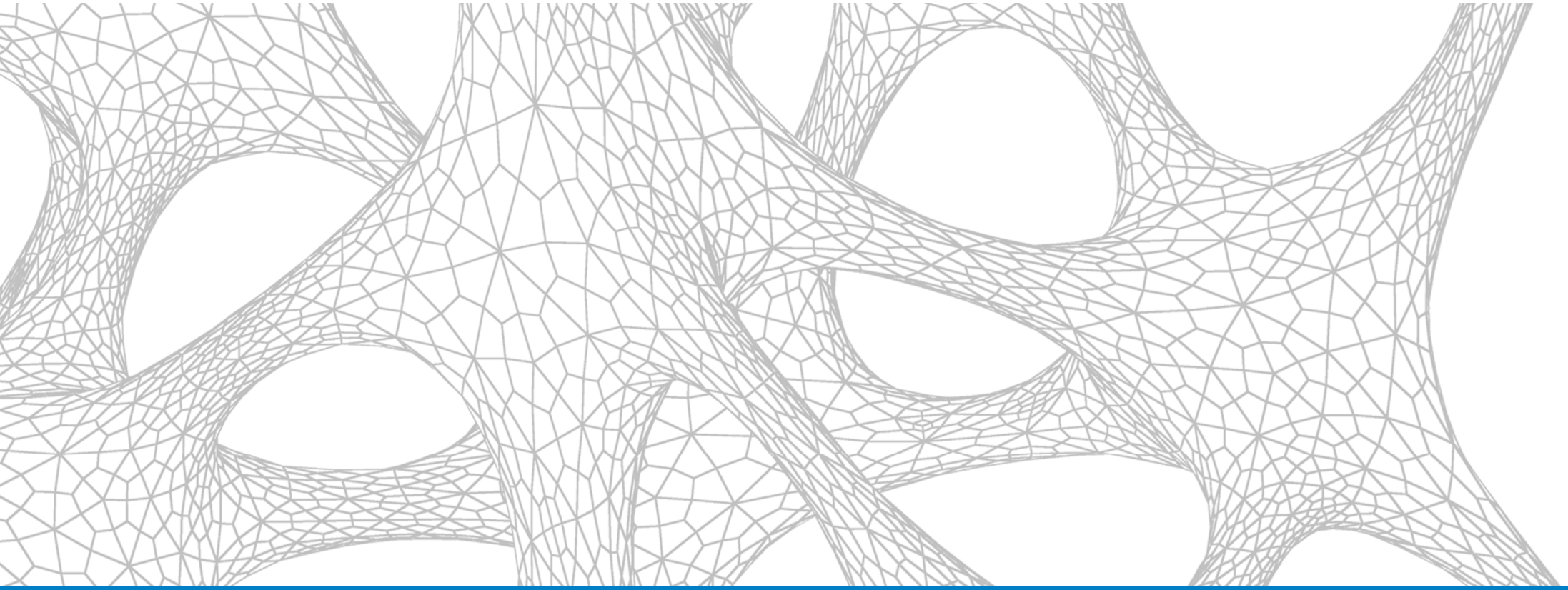
- Drawing units
- Drawing limits
- Layer naming strategy
- Setting gradient fills
- Setting hatch patterns



Spaces and polylines

Spaces and polylines

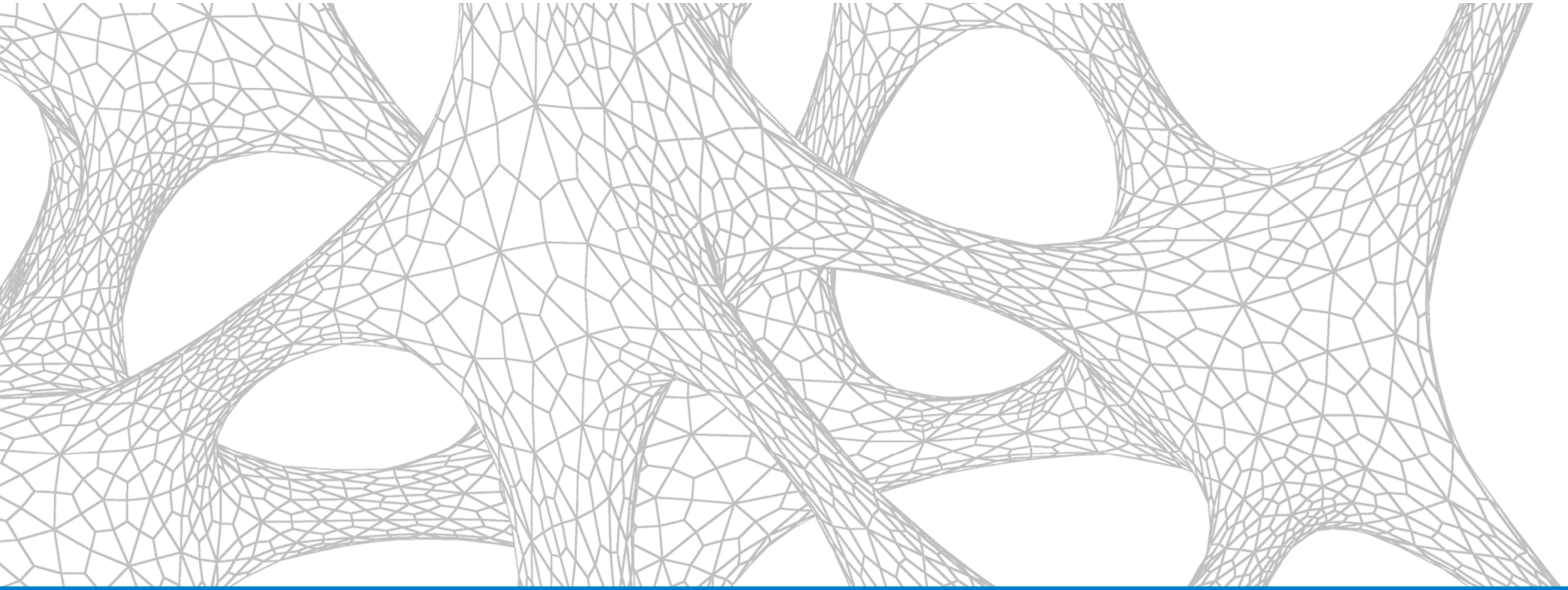
- Why use polylines? (PLINE)
- Object snaps (OSNAP)
- Creating space polylines
- Using different space types (assigning areas)



Defining space areas

Defining space areas

- Methods of measurement
- Using object snaps and centerlines
- Using Draw Order
- Using Lineweight (LWT)
- Creating a space/area legend on your drawing



Annotating spaces/areas

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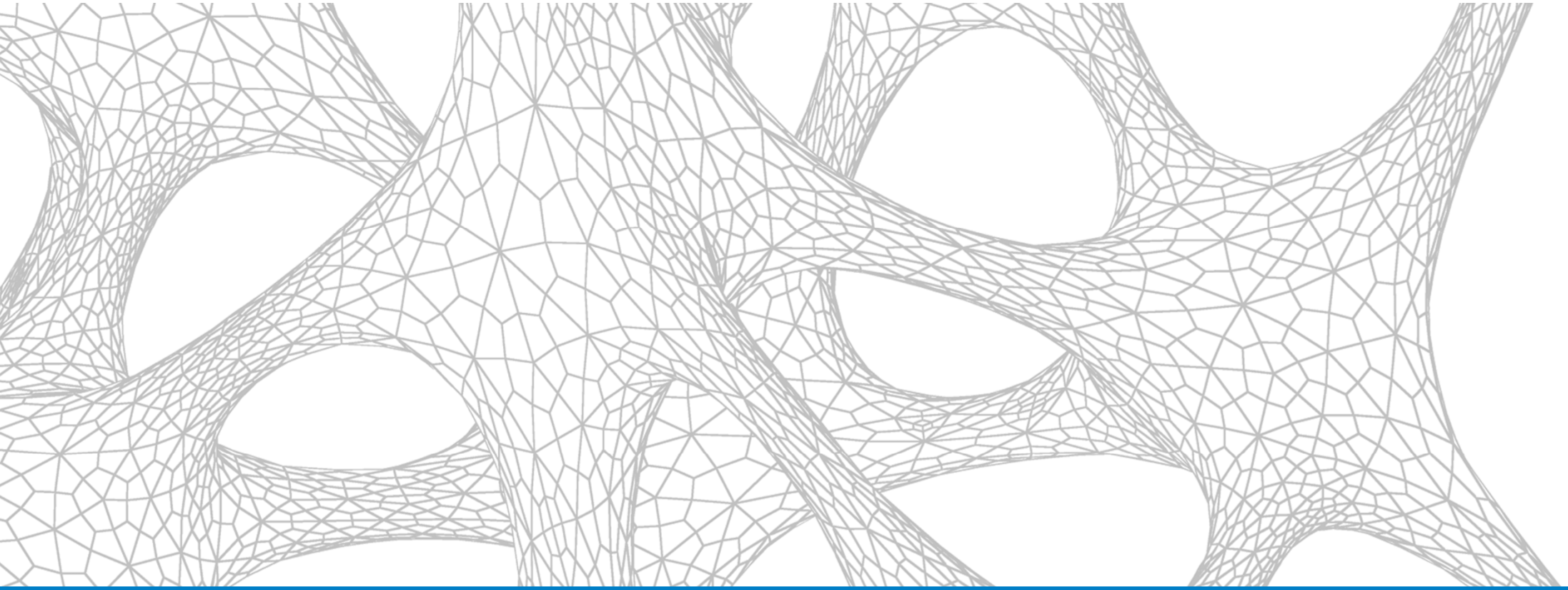
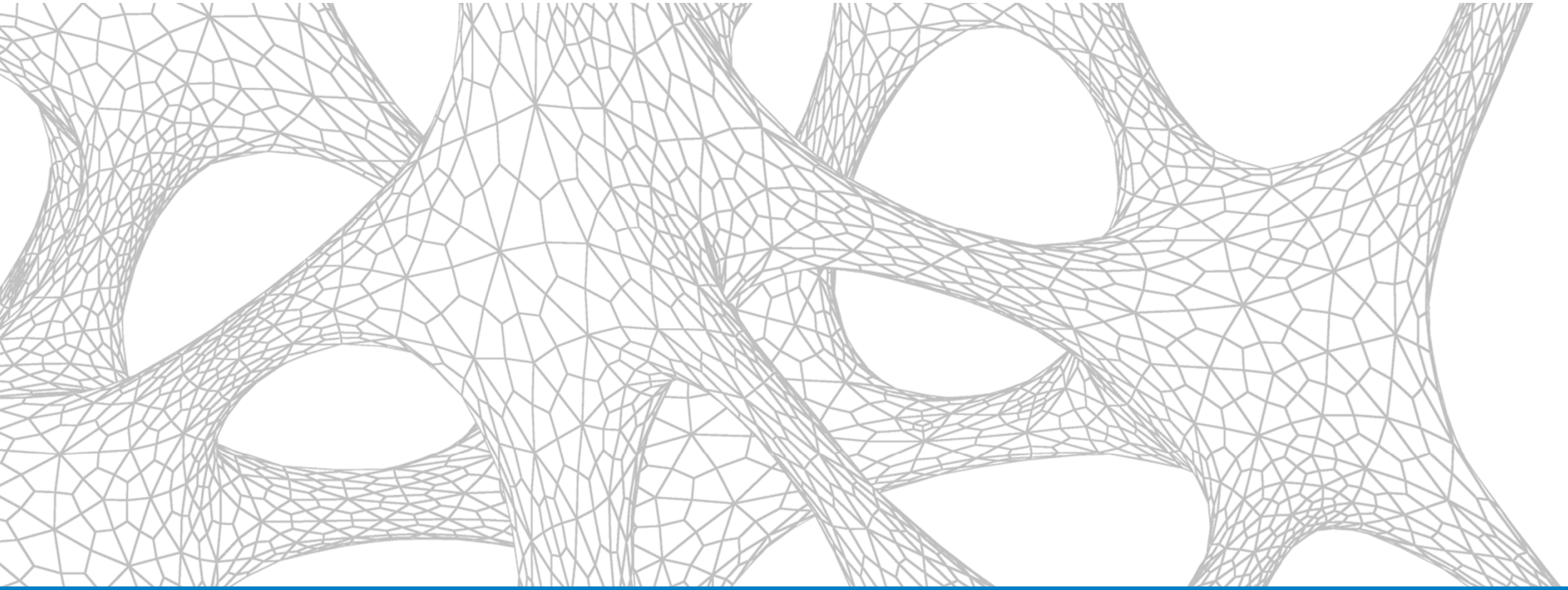
- Text styles
- Annotative scaling
- Using text fields
- Text field settings
- Using blocks and attributes
- Using text symbols (**m^2**, for example)



Setting up a space/area table style

Setting up a space/area table style

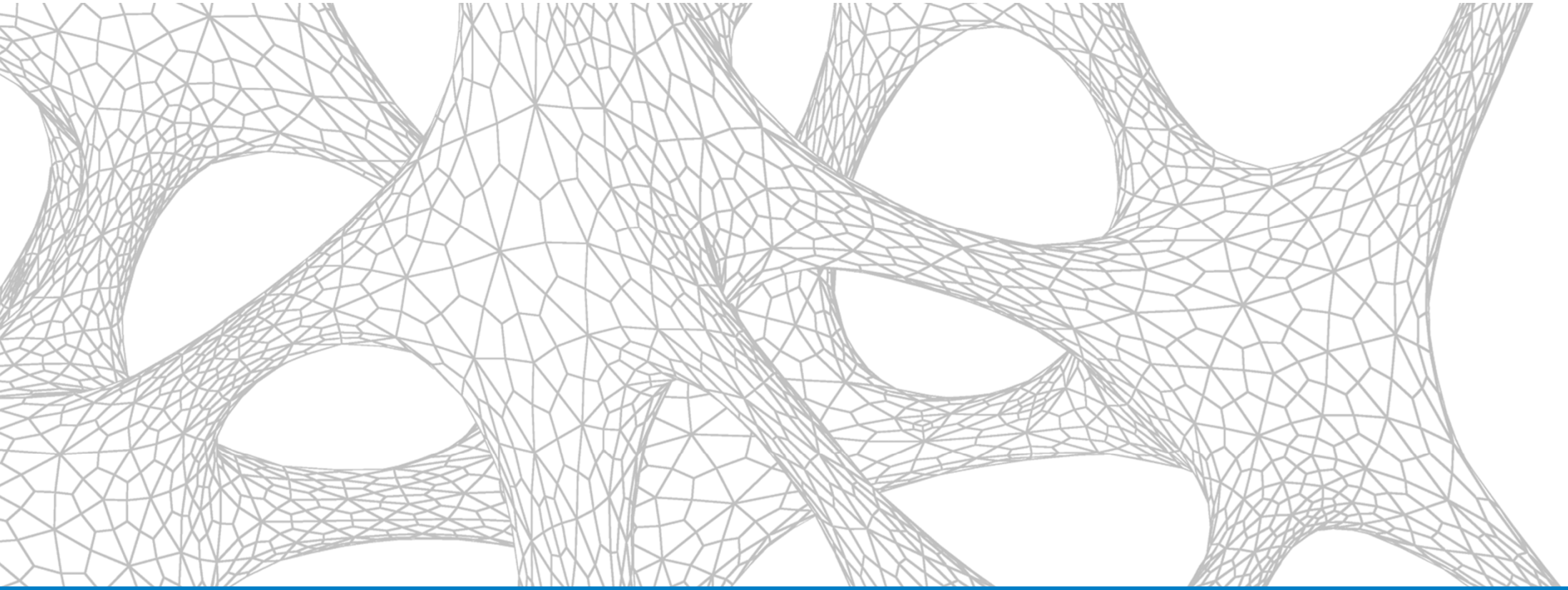
- Setting up the space/area table style
- Setting up the table title
- Setting up the table headers
- Setting up the table data
- Inserting the space/area table



Using the space/area table

Using the space/area table

- Locating polyline space/area data
- Adding space/area attribute data



Exporting the space/area table data

Exporting the space/area table data

- Exporting space/area table data to Excel
- Editing exported space/area table data in Excel

How did I do?

- Your class feedback is critical. Fill out a **class survey** now.
- Use the AU mobile app or fill out a class survey online.
- Give feedback after each session.
- AU speakers will get feedback in real-time.

- **Your feedback results in better classes and a better AU experience.**

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Thank you!

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