

AS463447: Understanding the New AutoCAD: **ONE** AutoCAD with Seven Toolsets

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Director – CADFMconsultants |  @notjustcad

Shaun Bryant (who is this guy anyway?)

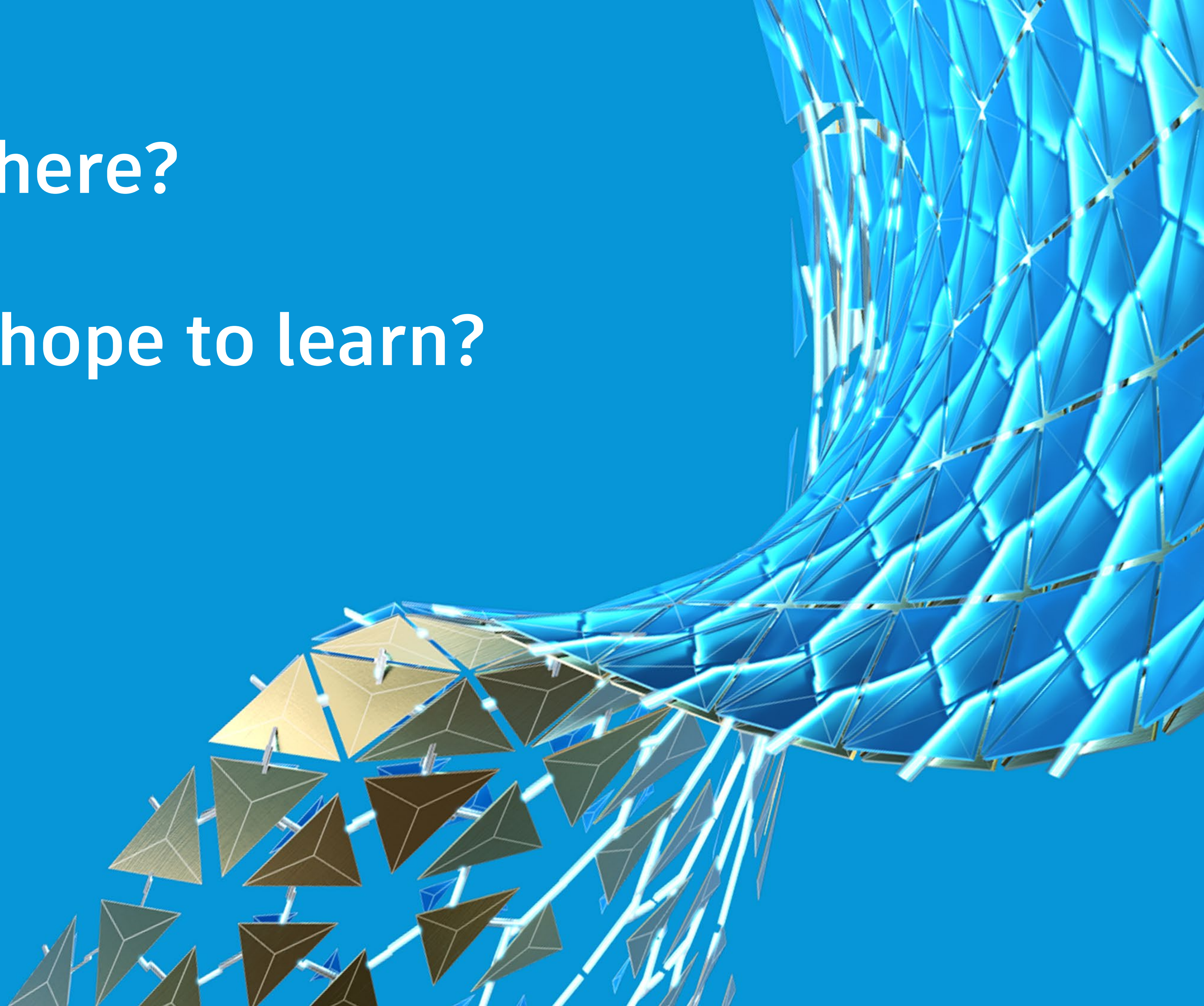


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- Owner/lead consultant – **CADFMconsultants**
- Prolific blogger – owner of the blog, **Not Just CAD!**
- Writer – AUGIWorld, Cadalyst, Redshift
- Content Author – **LinkedIn Learning (previously Lynda.com)**
- AutoCAD & Revit consultant and trainer
- Autodesk Expert Elite
- **Certiport** Subject Matter Expert (SME)
- **AMD** Subject Matter Expert (SME)
- AU Speaker Mentor
- 32+ years of AutoCAD experience
- 11+ years of Revit experience
- Singer/Songwriter – music on iTunes & other outlets
- Second album “under construction”
- Has been known to sound like the **Geico Gecko**
- **Ricky Gervais** stunt double

Why are you here?

What do you hope to learn?





KEYWORDS

AutoCAD.

One.

ONE AutoCAD.

7 AutoCAD toolsets.

ONE subscription.

MAKE ANYTHING.

Our objectives today...

OBJECTIVE 1

Discover the AutoCAD including specialized toolsets subscription

OBJECTIVE 2

Learn about some of the features provided with the One AutoCAD specialized toolsets subscription and how to deploy them to your team

OBJECTIVE 3

Learn how to develop and implement a workflow around the AutoCAD specialized toolsets

OBJECTIVE 4

Learn how to develop, implement, and enforce a training program around the AutoCAD specialized toolsets

A bit of background from the blog

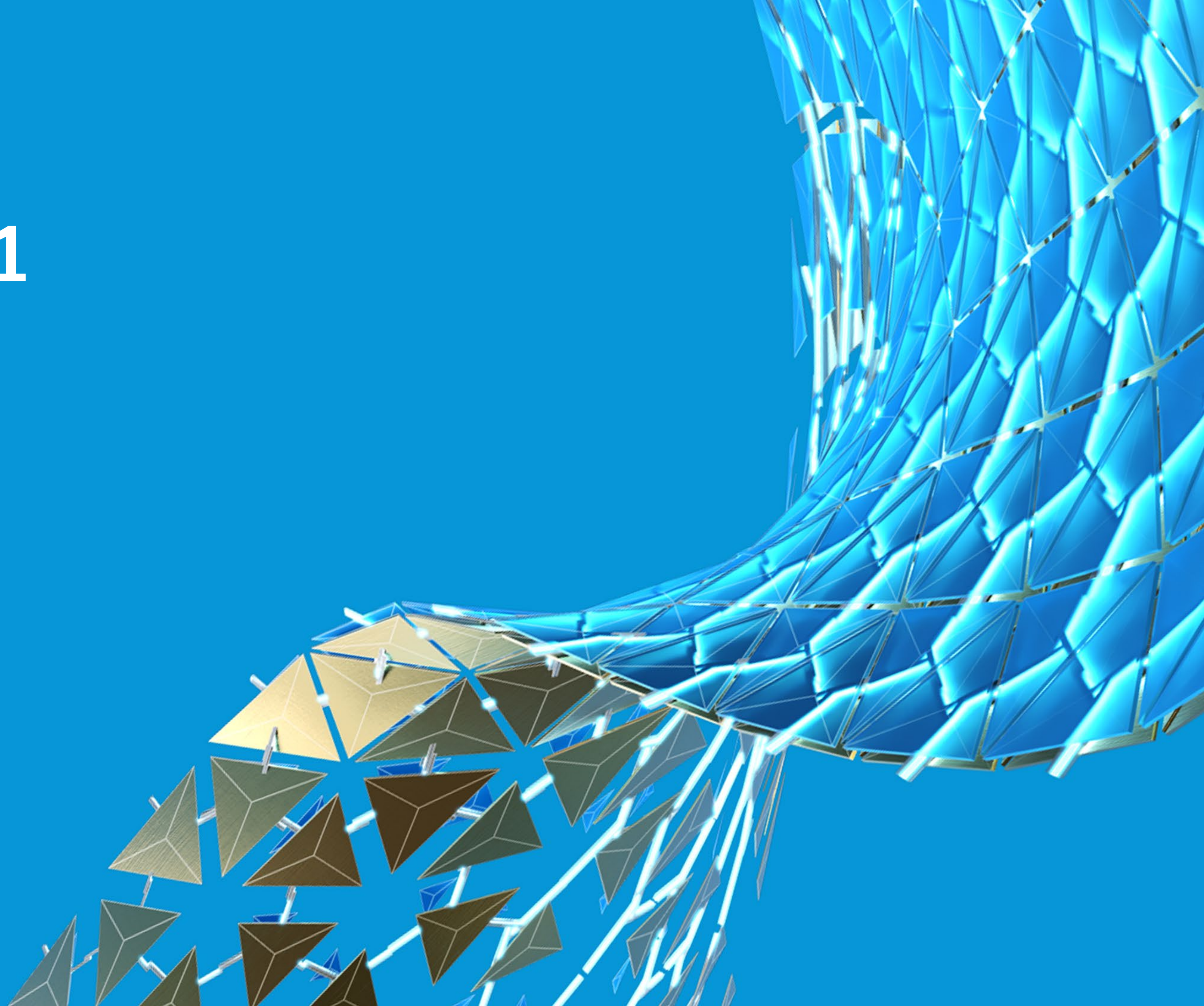
The blog series about **One AutoCAD** on the blog, **Not Just CAD!**

I often blog about all things CAD and sometimes other stuff, and back in March 2019, I wrote a series of One AutoCAD blogs, the first one being all about the original concept of the One AutoCAD release. The blog does talk about there being (originally) ten elements of the One AutoCAD, but it is now officially **One** AutoCAD with **SEVEN** specialized toolsets.

<https://cadfmconsult.com/autocad-2019-there-can-be-only-one>



OBJECTIVE 1



“There can be only one”

The Kurgan – During the battle between Clan MacLeod and Clan Fraser


The **One** AutoCAD subscription

- Highlander – “There can be only **ONE**”
- The Quickening
- Connor MacLeod of the clan MacLeod
- And what a soundtrack, eh?



One AutoCAD?

There can be only **ONE**?



19 songs, 1 hour, 29 minutes [Shuffle](#)

A Kind of Magic (Deluxe Edition)

Rock • 1986 ✓ DOWNLOADED

DISC 1		
1	One Vision	5:10
2	A Kind of Magic	4:24
3	One Year of Love	4:28
4	Pain Is So Close To Pleasure	4:22
5	Friends Will Be Friends	4:13
6	Who Wants To Live Forever	5:17
7	Gimme the Prize	4:35
8	Don't Lose Your Head	4:38
9	Princes of the Universe	3:32

DISC 2		
1	A Kind of Magic (Highlander Version)	4:23

Yes, the **One** AutoCAD subscription (with **SEVEN** toolsets)!

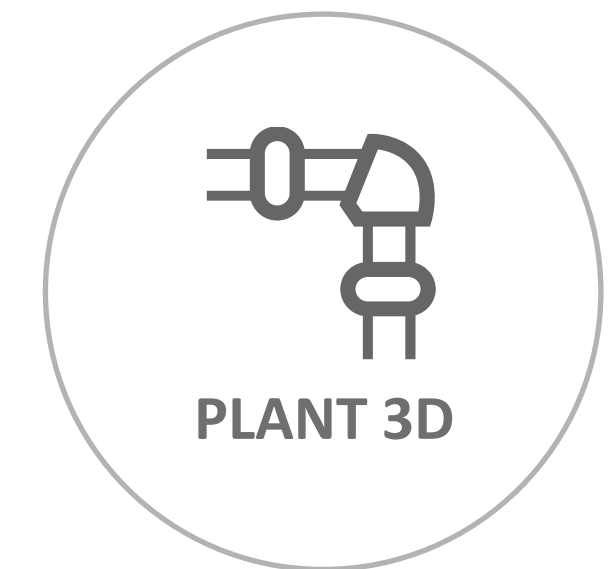
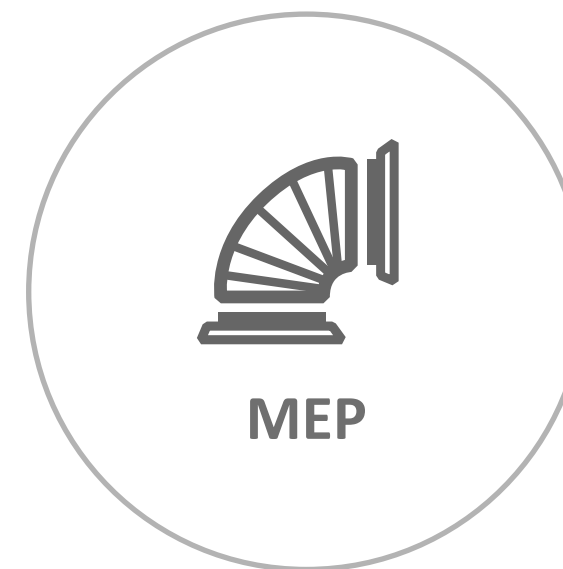
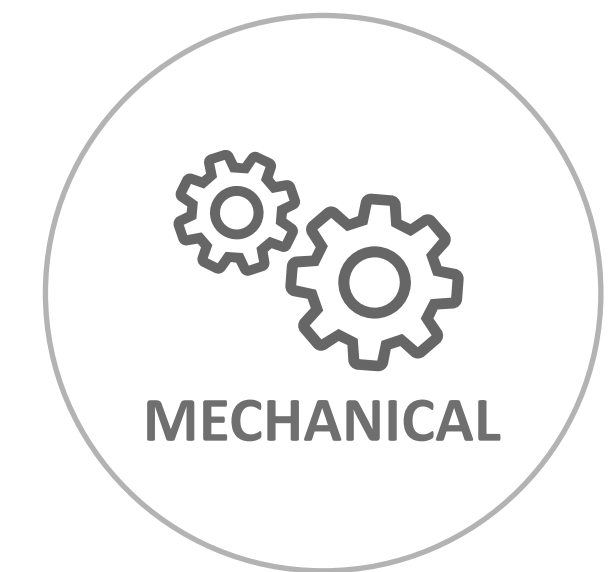
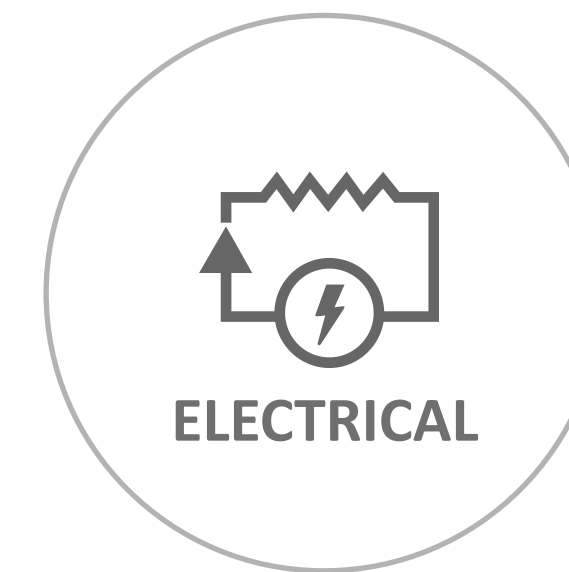
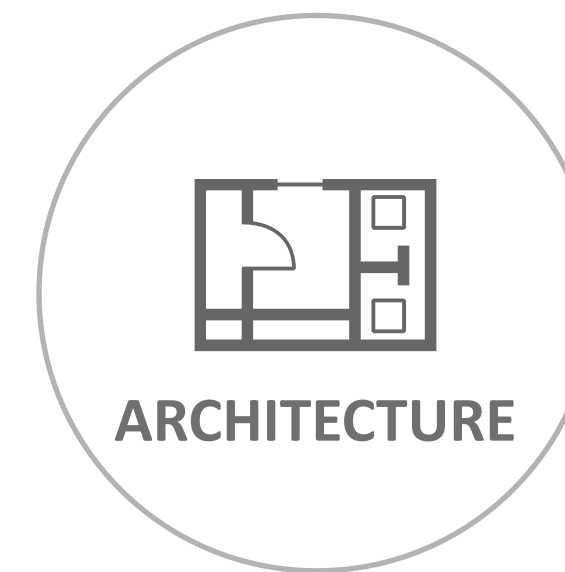
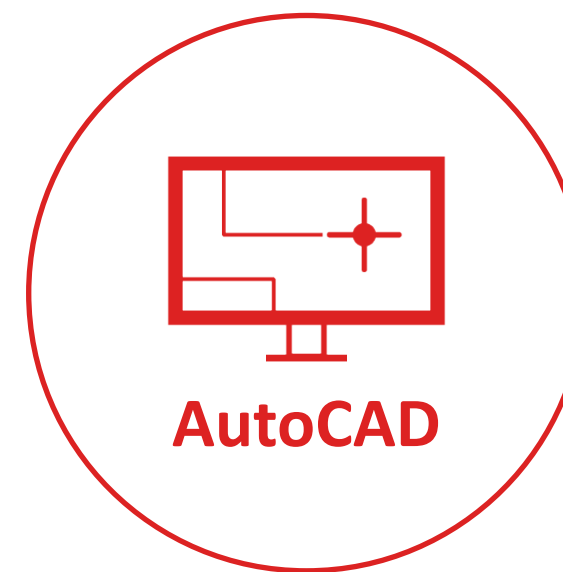
Work faster with **SEVEN** specialized toolsets

One AutoCAD

- A twist on the Highlander quote: There can be only **SEVEN!**








One subscription including....

- **Architecture** toolset
- **Electrical** toolset
- **Mechanical** toolset
- **MEP** toolset
- **Map 3D** toolset
- **Raster Design** toolset
- **Plant 3D** toolset



Your Autodesk account portal

One AutoCAD – There can be only **SEVEN** – available for install

>	 AutoCAD Architecture Versions: 2021, 2020, 2019, 2018	1	View downloads
>	 AutoCAD Electrical Versions: 2021, 2020, 2019, 2018	2	View downloads
>	 AutoCAD MEP Versions: 2021, 2020, 2019, 2018	3	View downloads
>	 AutoCAD Map 3D Versions: 2021, 2020, 2019, 2018	4	View downloads
>	 AutoCAD Mechanical Versions: 2021, 2020, 2019, 2018	5	View downloads
>	 AutoCAD Plant 3D Versions: 2021, 2020, 2019, 2018	6	View downloads
>	 AutoCAD Raster Design Versions: 2021, 2020, 2019, 2018	7	View downloads

Utilizing your One AutoCAD subscription

One AutoCAD

- There can be only **SEVEN**
- A **TOOLBOX** for use when needed but still separate applications
- No need to install **ALL** seven!!



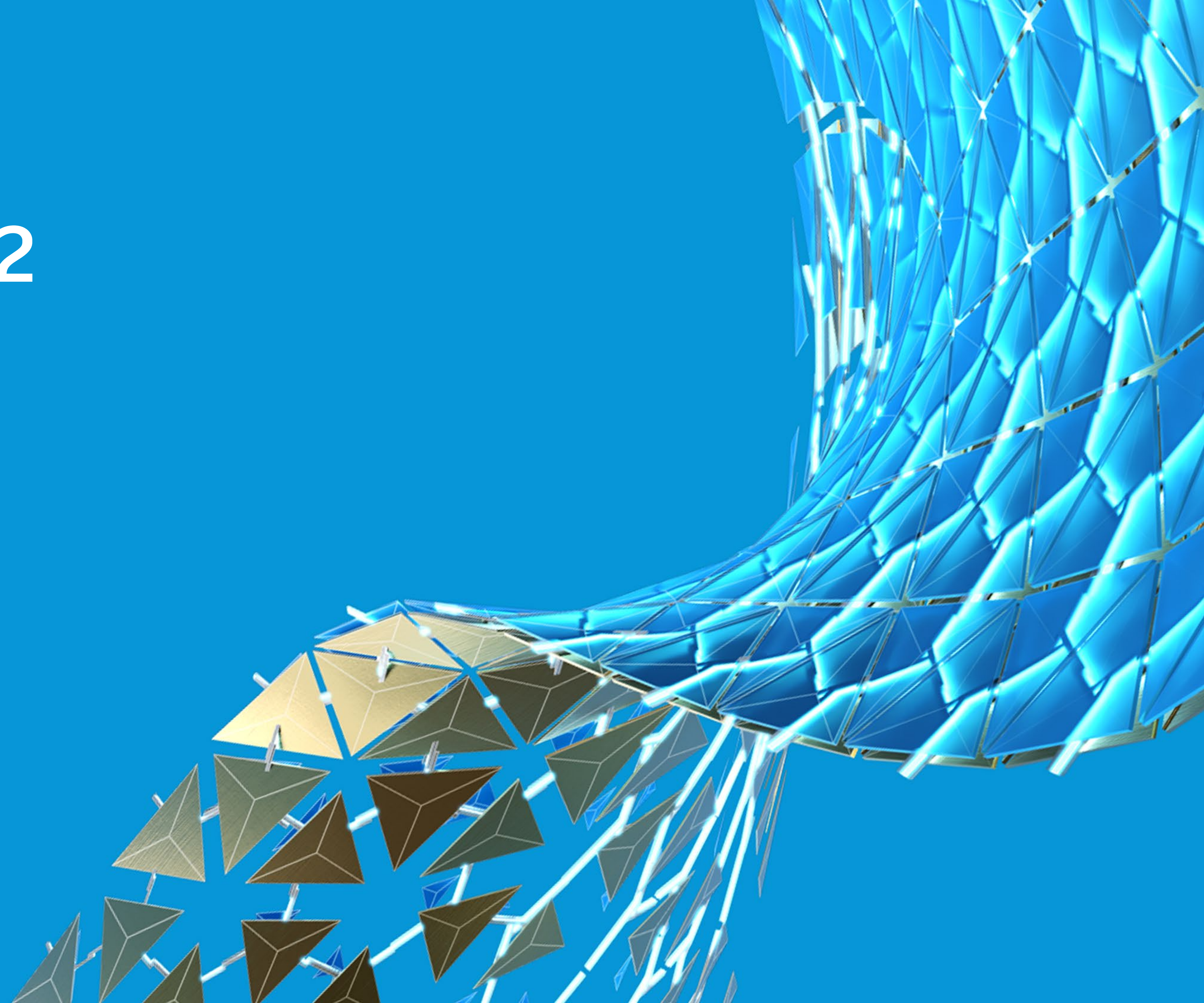
So, there you go.

There can be only **SEVEN**, not just one like in Highlander.

SEVEN AutoCAD's, plus AutoCAD.

All available as **ONE** subscription = **One** AutoCAD.

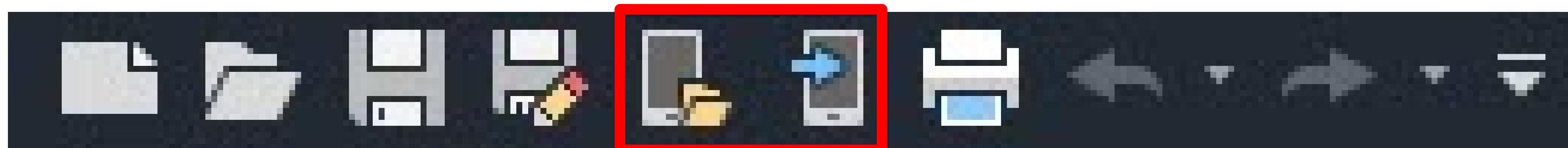
OBJECTIVE 2



Working with the One AutoCAD subscription:

AutoCAD web & mobile apps

- Great improvements to both apps – both in interface and accessibility
- **Save to Web & Mobile (SAVETOWEBMOBILE)**
- **Open from Web & Mobile (OPENFROMWEBMOBILE)**
- Accessible once signed in once in AutoCAD
- Cloud based Web & Mobile folders
- Available with One AutoCAD (& also the AutoCAD LT subscription)



Working with the AutoCAD web app

Referencing capability – using XREFs

- Improves DWG crossover – multiple users ‘in the field’

Object selection – window and crossing selection

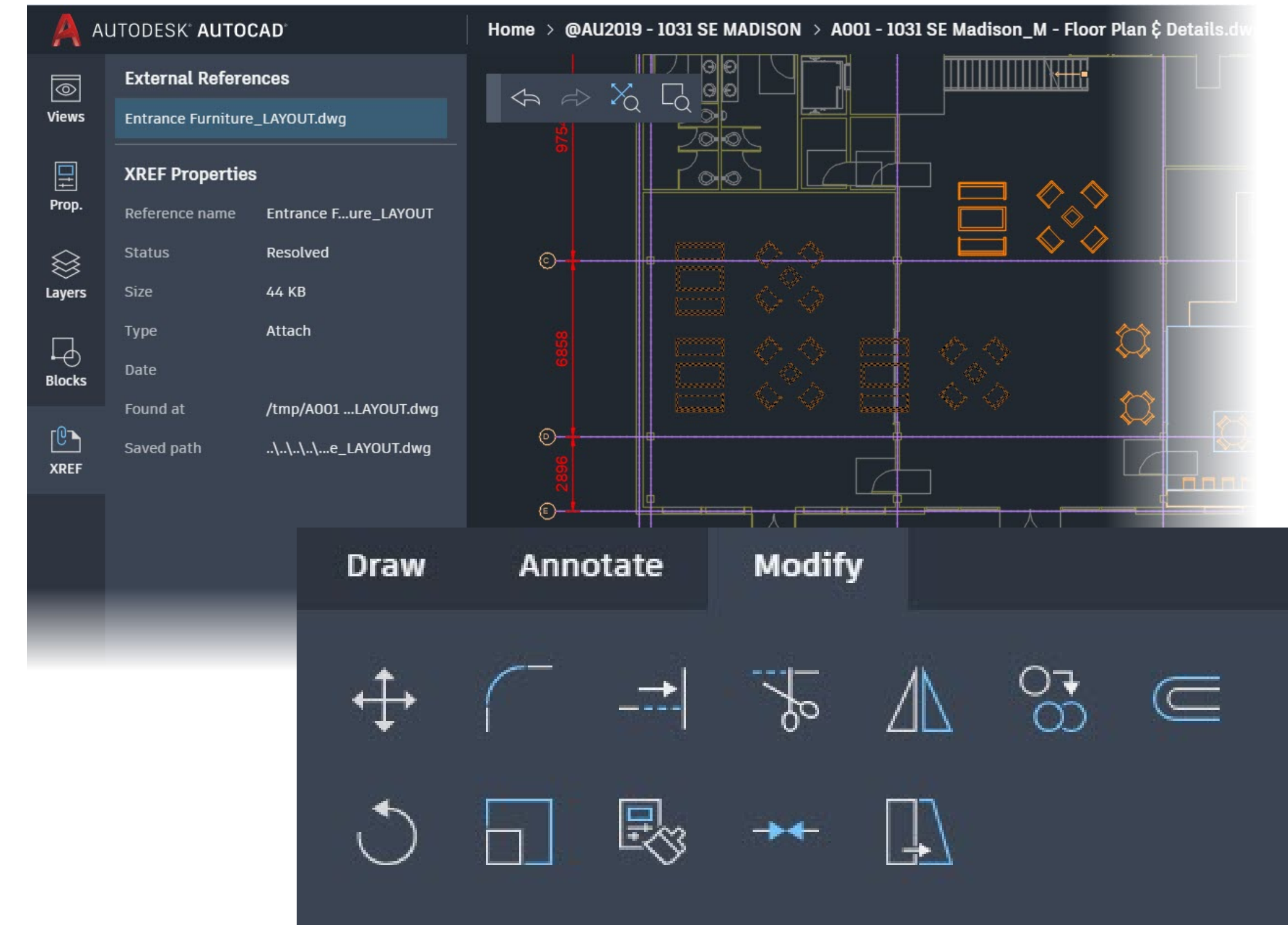
- The same old AutoCAD – legacy features

Hardware now up to the job

- The latest & greatest - iPad Pro, Microsoft Surface etc

Iconology

- The same as it ever was – legacy icons for commands and DWG files



Working with the AutoCAD mobile app

Improved interface

- The AutoCAD mobile app uses a gesture-based interface, combined with legacy commands

Easy file access when 'on the road'

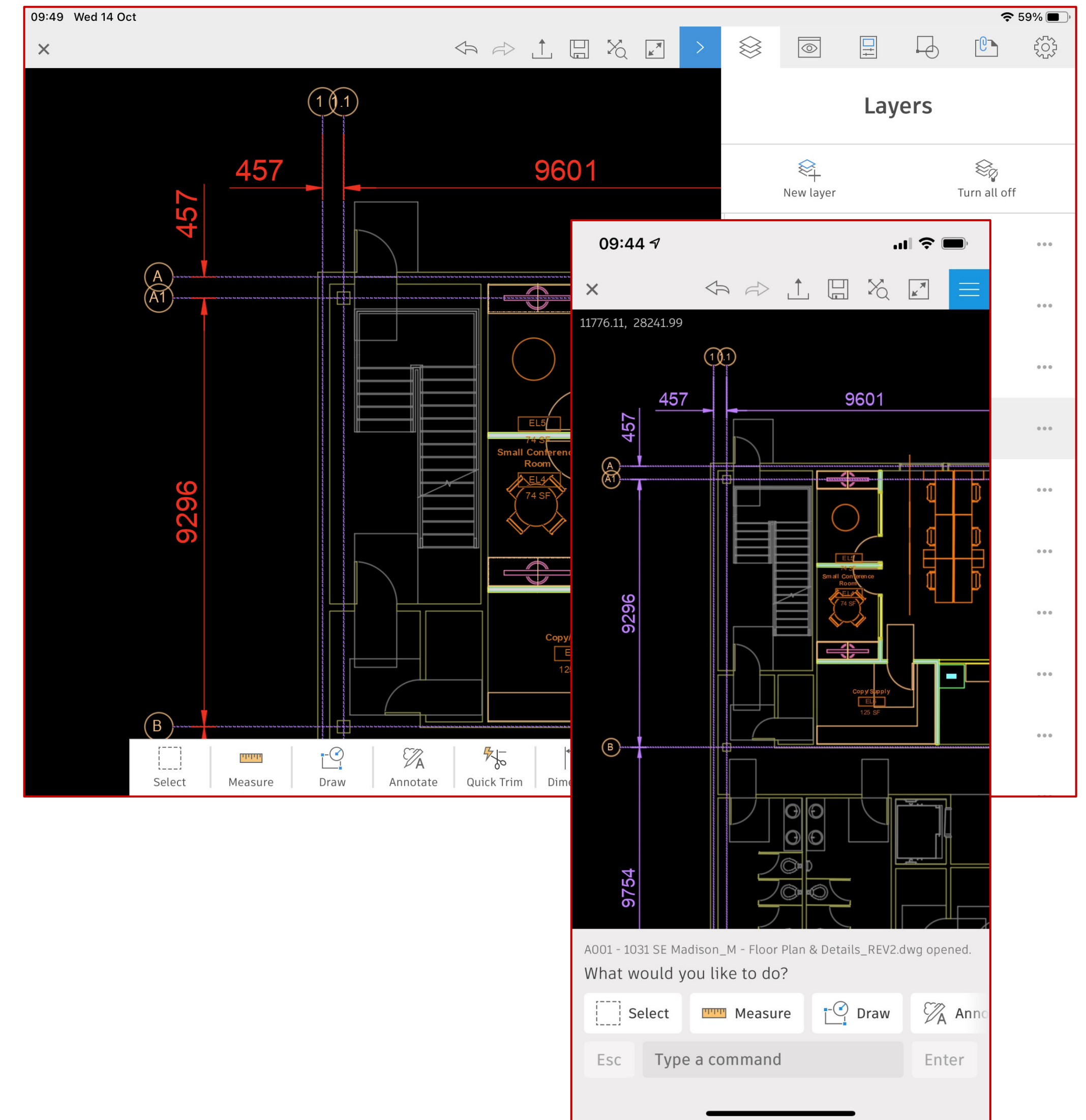
- Utilizes the AutoCAD Web & Mobile folders and other cloud providers

Part of the family

- The AutoCAD mobile app is part of both the One AutoCAD and AutoCAD LT subscriptions

Totally portable

- Easy to use on any smartphone or tablet

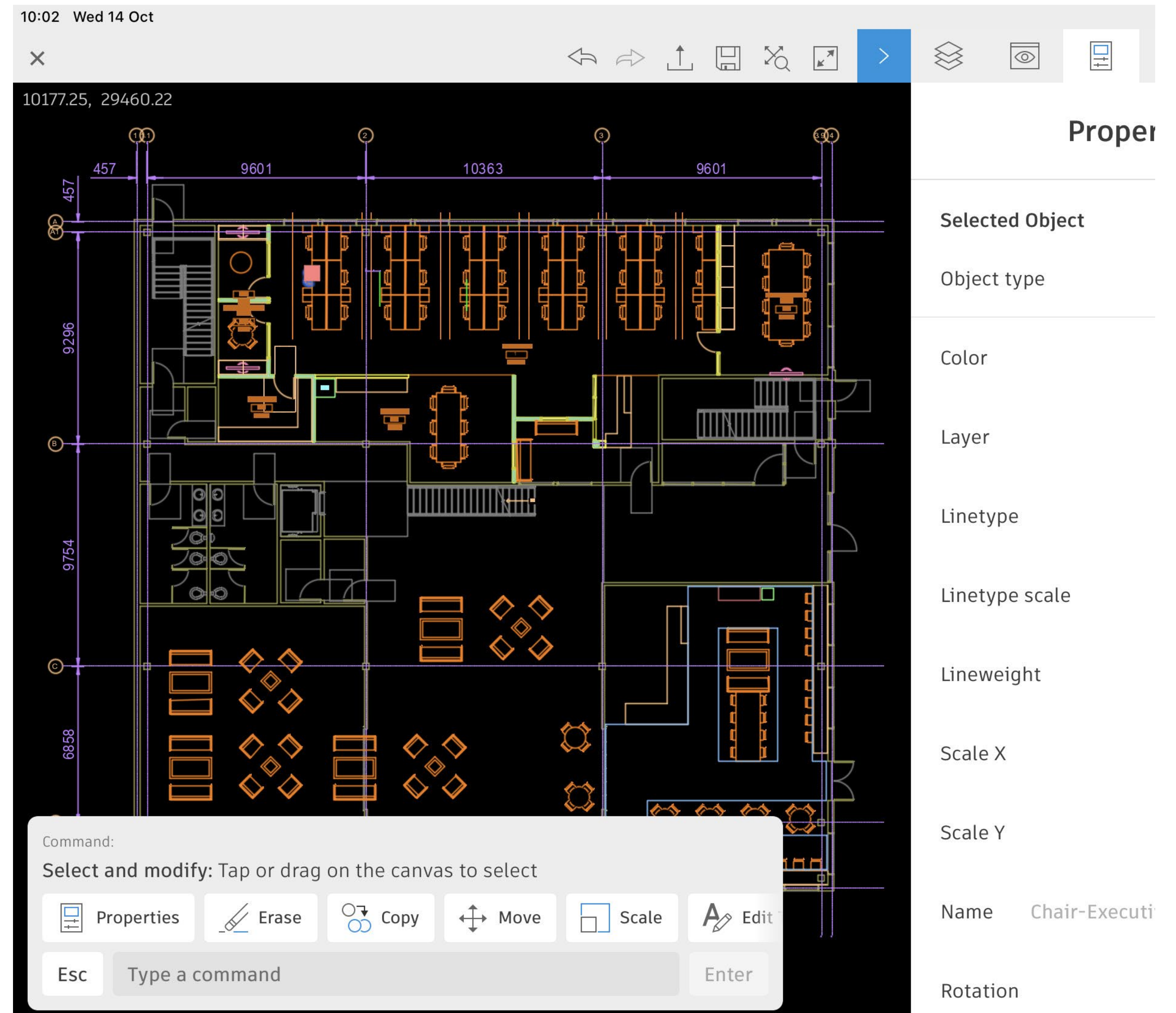


TAKEAWAY TIP!!

Work with the AutoCAD app that most suits your device.

Typical examples would be: -

- LARGER SCREEN
 - iPad Pro - consider the AutoCAD web app, as a browser works well with that sized device.
- SMALLER SCREEN
 - iPhone - use the AutoCAD mobile app as it is designed for smaller devices.



Deploying the toolsets to your team

The One AutoCAD **SEVEN** specialized toolsets

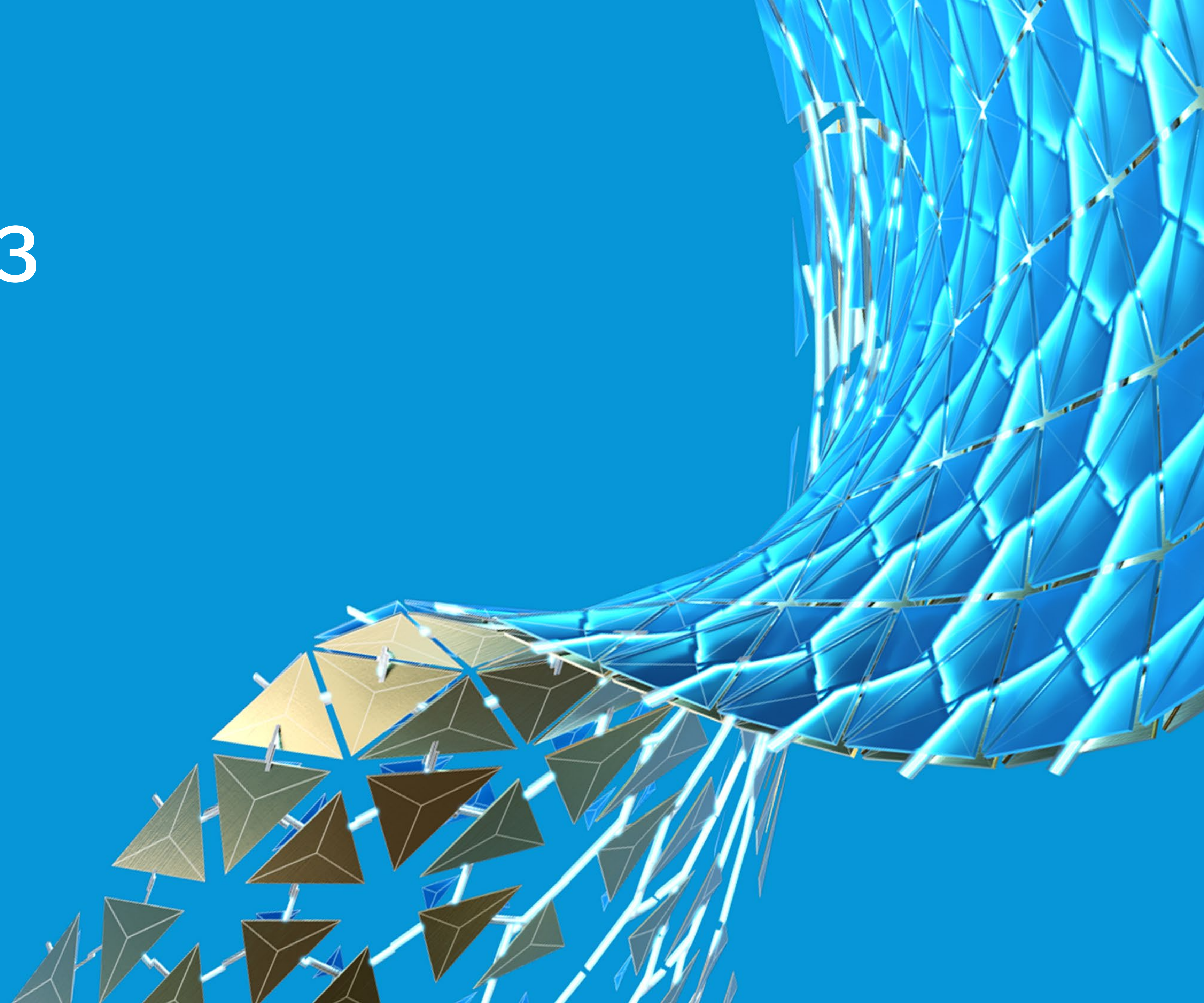
- No need to have them **ALL** installed!
- Provides a 'toolbox' of AutoCAD specialist tools across all disciplines
- **Architecture** = Architecture toolset
- **Mechanical** = Mechanical toolset
- All the 'tools' all in the one place
- One subscription
- One deployment = AutoCAD + toolset

Deploying the toolsets to your team

Installation

- Normal installation – one application at a time
- **AutoCAD Raster Design** – provides the Raster Tools tab in the ribbon
- Copy and pasting across toolsets
- If vanilla AutoCAD is installed, use **Install Now** option for other toolsets
- Great article by Marcus O'Brien on the official AutoCAD blog!
- **ALWAYS** ask – “Do you **REALLY** need **ALL** of the toolsets installed?”

OBJECTIVE 3



Develop and implement a toolset workflow

Conversion of DWG files to the appropriate toolset

- A change in workflow and process
- **AutoCAD Electrical toolset** – using projects and specific DWT files
- Higher productivity in the longer term
- Better return on investment (ROI)

Standard
AutoCAD
DWG



Electrical
workflow/
process



Electrical
toolset
DWG

Develop and implement a toolset workflow

Setting up recognized CAD standards for each toolset

- Built in industry specific standards
- Set up for required output
- Change in workflow and process
- **AutoCAD Architecture toolset** = 3D modelling instead of 2D drafting

Standard
2D drafting
DWG



AutoCAD
Architecture
toolset



Enhanced
3D modelling
DWG

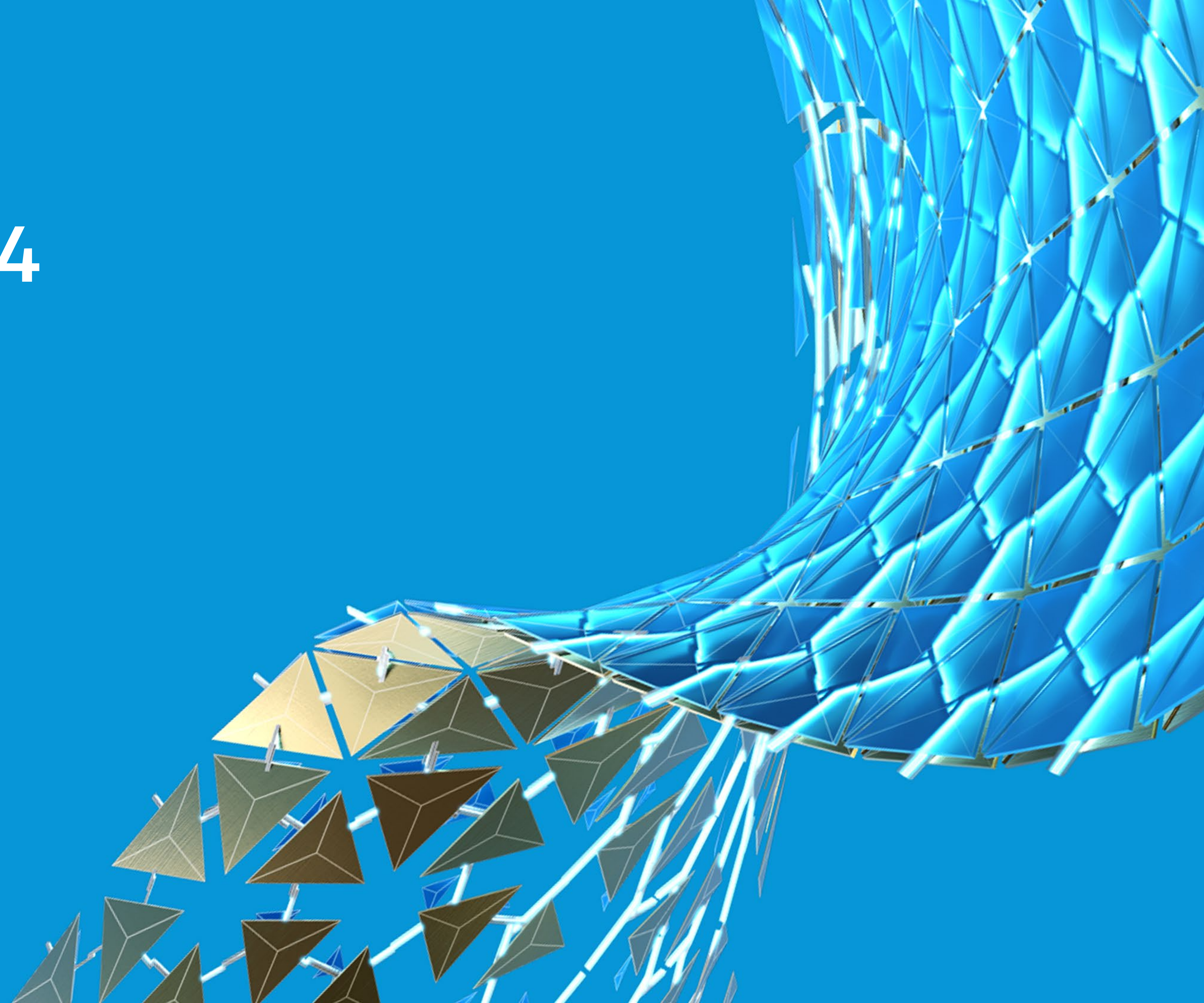
Develop and implement a toolset workflow

Explaining the benefits of the AutoCAD toolsets to higher management

- Established AutoCAD 2D/3D workflow
- Problems/cost implications
- Benefits of toolsets – use the Autodesk productivity studies
- **RETURN ON INVESTMENT (ROI)**



OBJECTIVE 4



Develop, implement, and enforce a training program

Imagine THIS scenario: -

“What happens if we train them and they leave?”

My reply is,

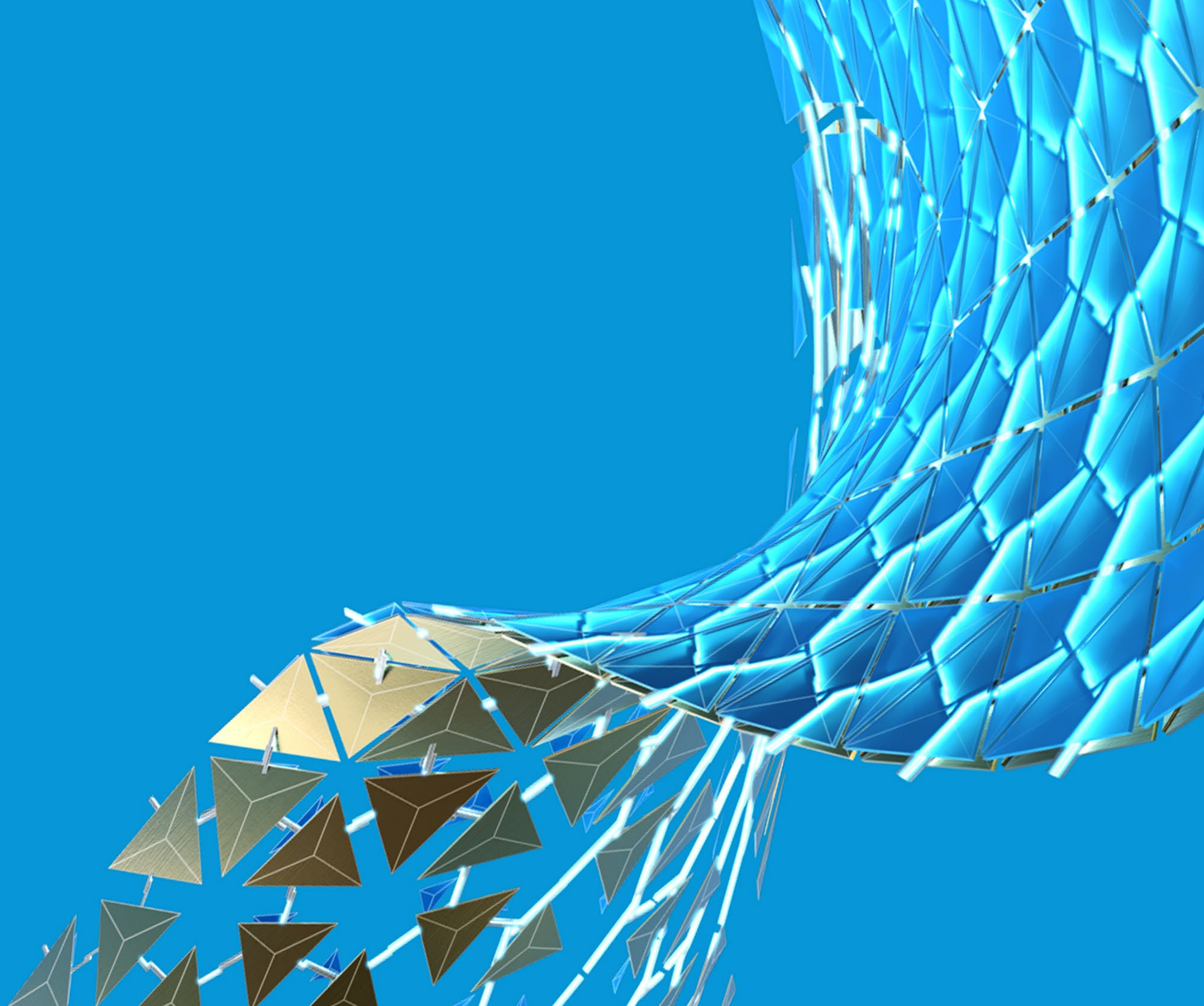
*“What happens if we **DON'T** train them and they **STAY**?”*

Develop, implement, and enforce a training program

Set up a blended training program

- Classroom instructor led training (ILT)
 - People will always learn from people (COVID: Zoom, Teams, BlueJeans....)
- Online learning (LinkedIn Learning) – Certification Preparation
 - With the **#WFH** ethic now the norm, encourage certification as part of the workflow
- Autodesk Certification – benchmarking the standard
 - Autodesk Certification can become your knowledge benchmark for skills
- RETURN ON INVESTMENT
 - Well trained staff are more efficient and productive
 - They are also much happier in their roles!

REVIEWING OUR OBJECTIVES



Reviewing our objectives

OBJECTIVE 1

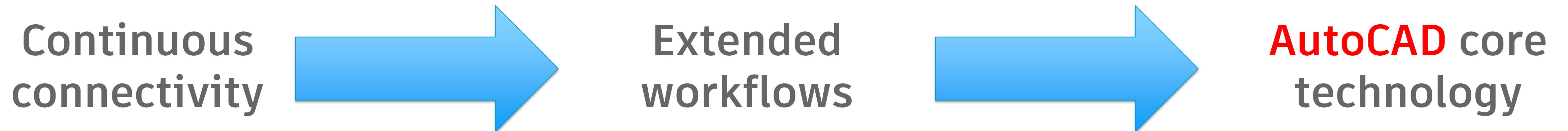
- Aware of the One AutoCAD subscription
- Seven specialized AutoCAD toolsets
- AutoCAD web and AutoCAD mobile



Reviewing our objectives

OBJECTIVE 2

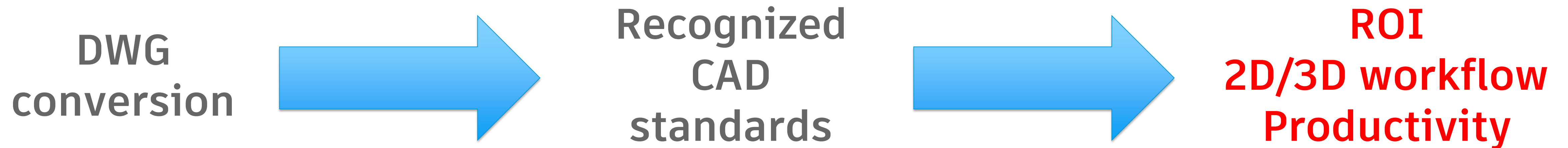
- Aware of some of the time-saving features in the One AutoCAD
- AutoCAD web and AutoCAD mobile – ‘on the road’
- Easier installation and deployment



Reviewing our objectives

OBJECTIVE 3

- Conversion of DWG files to an appropriate AutoCAD toolset
- Setting up industry-recognized CAD standards in the toolsets
- Higher management buy-in: ROI, 2D/3D workflow, productivity studies



Reviewing our objectives

OBJECTIVE 4

- Classroom/Instructor Led Training (ILT) – Virtual/online
- Certification Preparation (LinkedIn Learning)
- Use Certification as your benchmark for skills



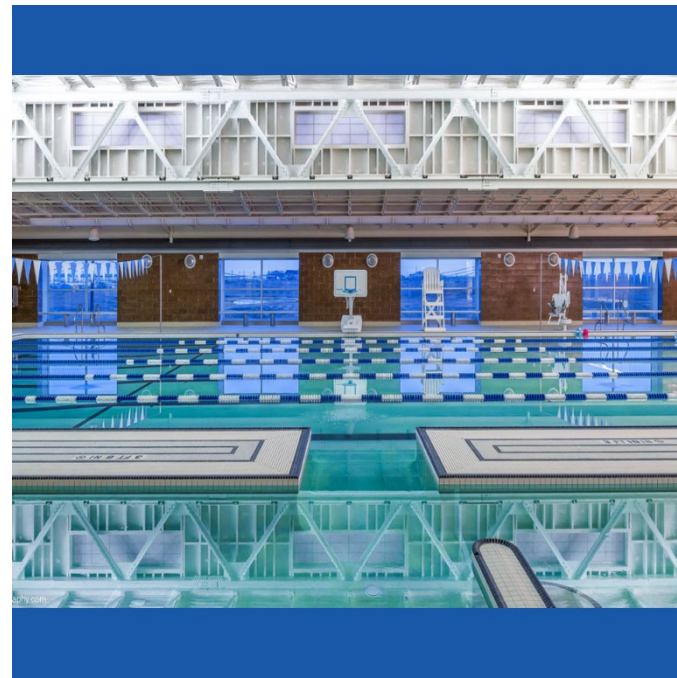
One AutoCAD with **SEVEN** specialized toolsets gives you, as a designer, an incredible amount of flexibility and, more importantly, the ability (and mobility) to, quite literally....

....MAKE ANYTHING, anywhere.



Thank you, (virtual) audience!

Keep an eye out for the **LIVE** Q&A!!



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Go to: autode.sk/autocadstory



We know that the best way to tell the AutoCAD story is to tell the stories about the people who use it.
Share your story with Autodesk for a chance to be featured in their upcoming marketing efforts.



Stay in touch!

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Twitter: @notjustcad

LinkedIn: <https://www.linkedin.com/in/cadfmconsult/>

Web: www.cadfmconsult.co.uk

Instagram: @notjustcad

TAKEAWAY TIP:

Share your LinkedIn QR codes to stay in touch. Quicker than a business card!



Shaun 'SCB' Bryant, ACI
Autodesk Certified Instructor | LinkedIn
Learning [in]structor | Author - Tinkercad For...





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