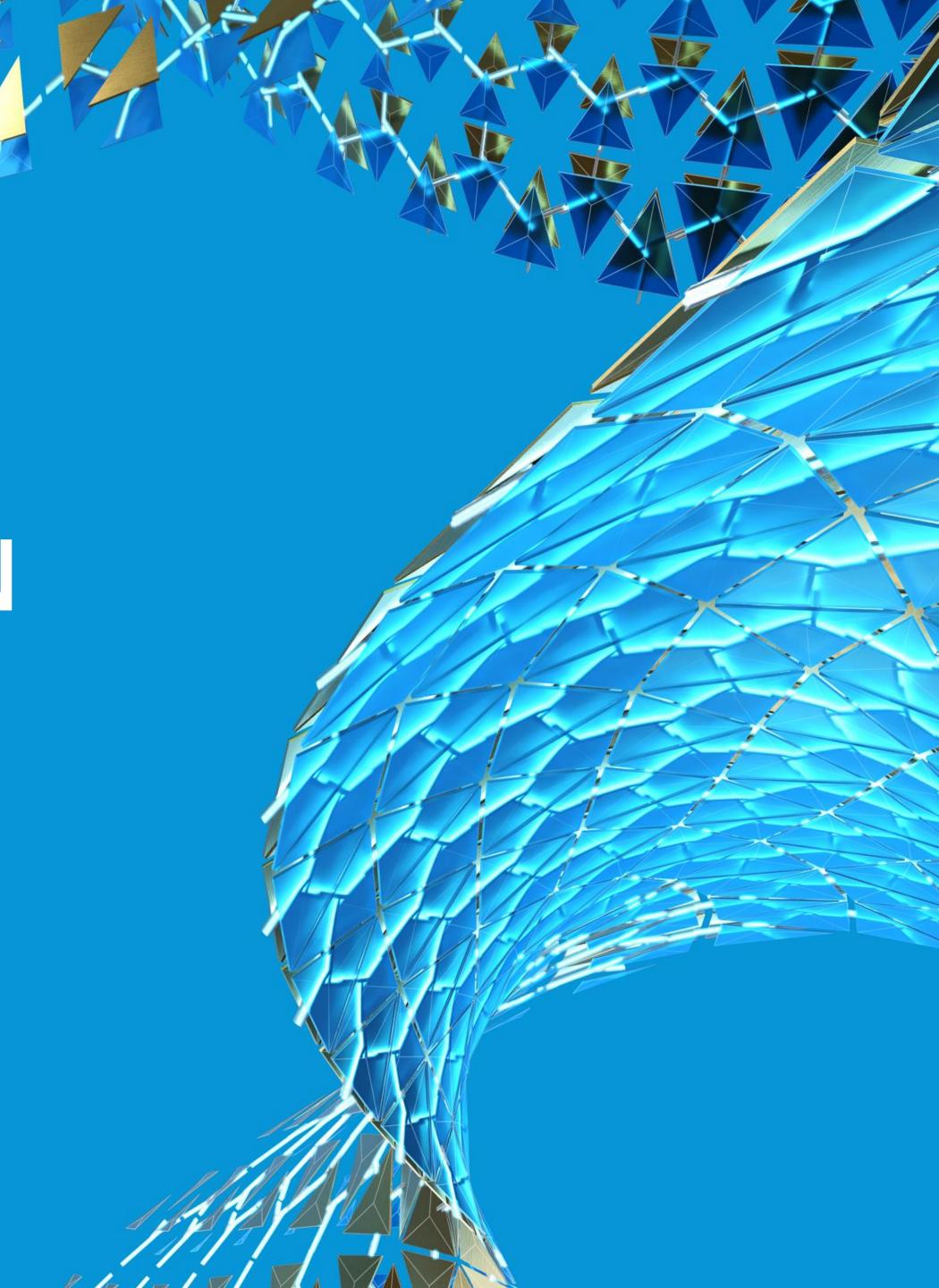


# Advanced Automotive Workflows with SHOTGUN

#### **Brandon Tasker**

Product Manager | Automotive & Conceptual Design @ Autodesk





#### About the speaker

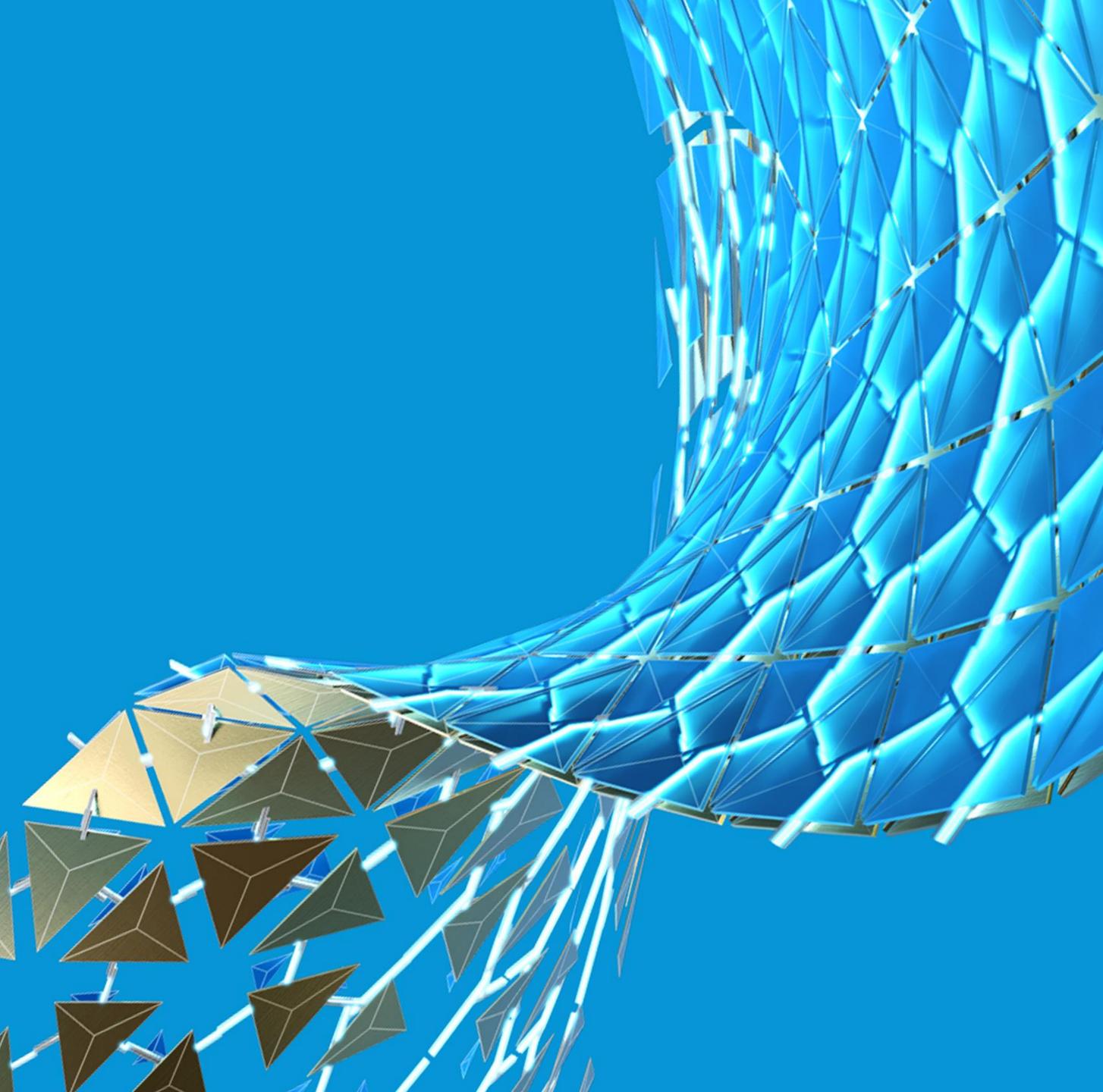
#### Brandon Tasker

- Classically Trained Animator
- Led Pipeline & Workflow processes in Animation & VFX
- Solving automotive workflow challenges using Shotgun



- Goal of this Talk
- Shotgun Summary
- Customer Challenges
- Workflow Overview

Advanced Workflow Examples





#### Goal of this Talk



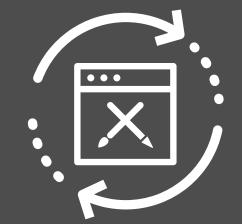


#### Goal of this Talk

#### Advanced Shotgun Workflows



Go Faster



Improve Quality





Simplify Workflows



#### Goal of this Talk

#### Advanced Shotgun Workflows



Go Faster



Improve Quality



Simplify Workflows

Shotgun technology ecosystem

Examples workflows

Value of the workflows



#### Out of the Box vs. Customization?



- Technology Freedom
- Integrate your Workflow
- Differentiate with your process!

# SHOTGUN Overview



#### Shotgun Basics

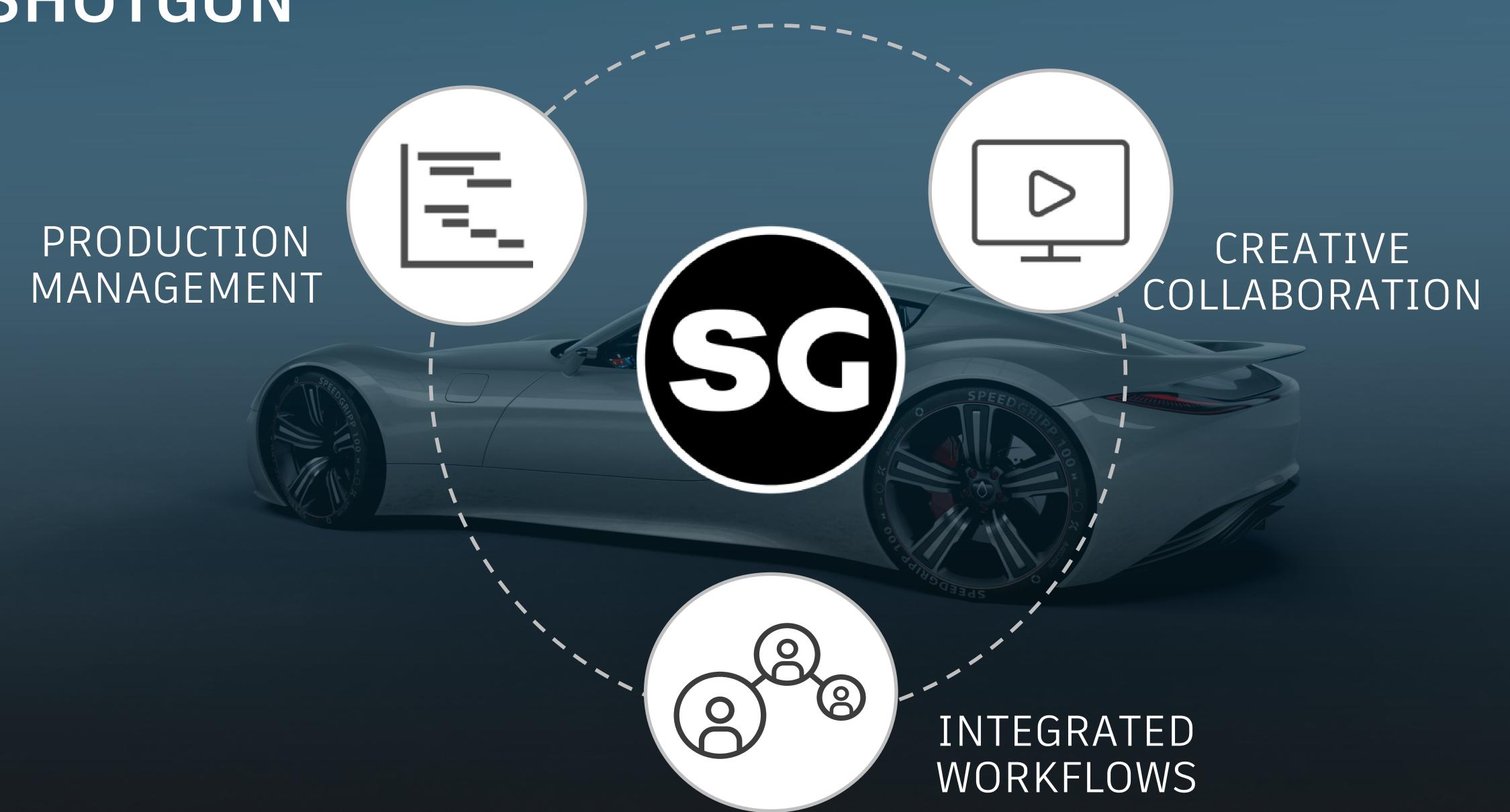
This will not intro Shotgun... but you can still listen today!











# SHOTGUN | Solution /







Manage design projects, schedules and teams



Capture reviews, feedback and decisions



Automatically managing the data and the process

# SHOTGUN | Solution





## SHOTGUN | Solution



#### SHOTGUN APPLICATION



Project Managers

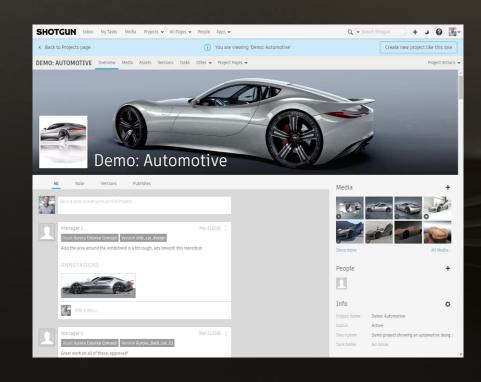


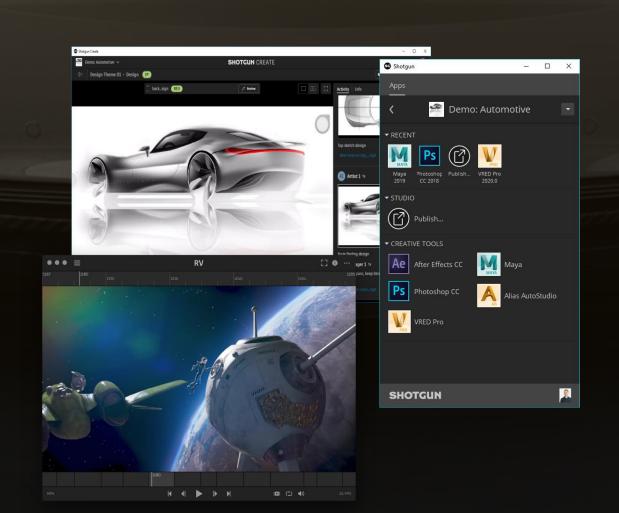


Web Interface

Desktop Tools

API

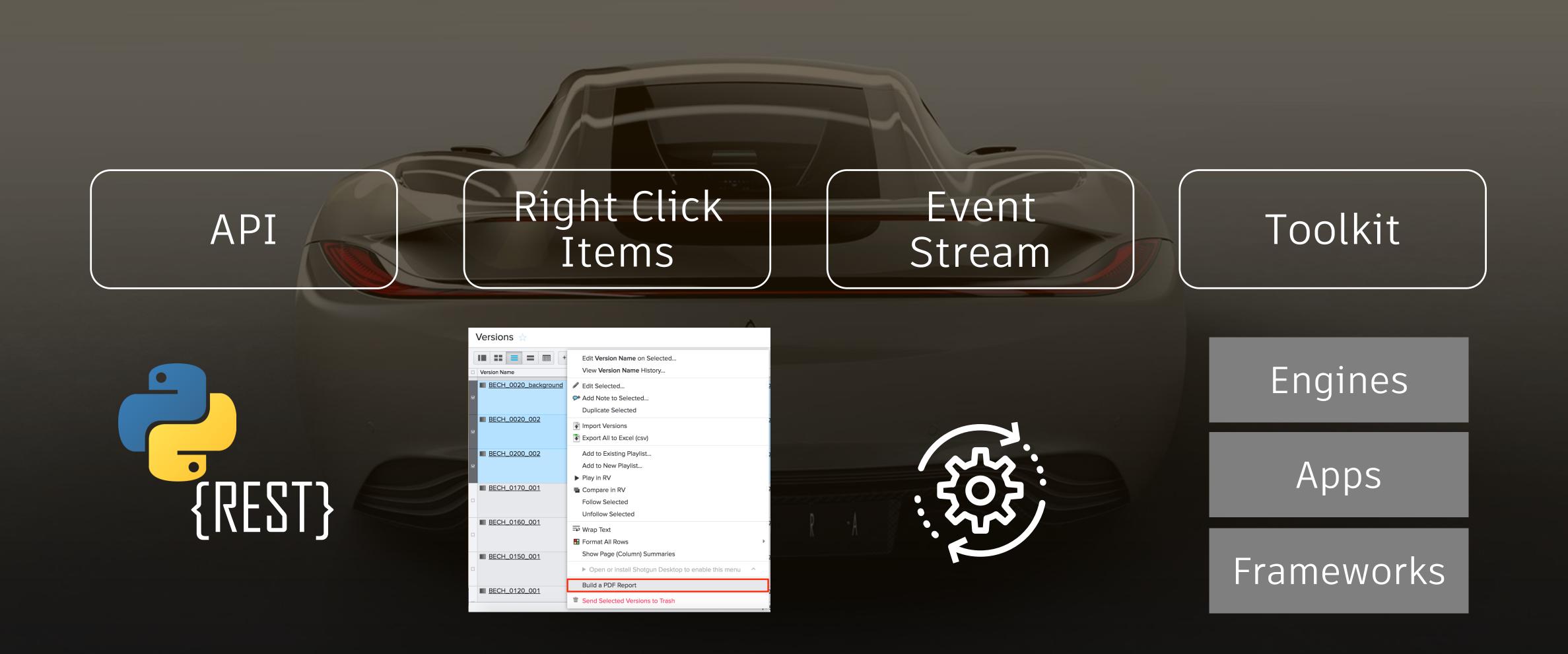






{REST}

# SHOTGUN | Shotgun was built to Customize



#### SHOTGUN



PRODUCTION MANAGEMENT

CREATIVE COLLABORATION

Shotgun can solve major collaboration challenges





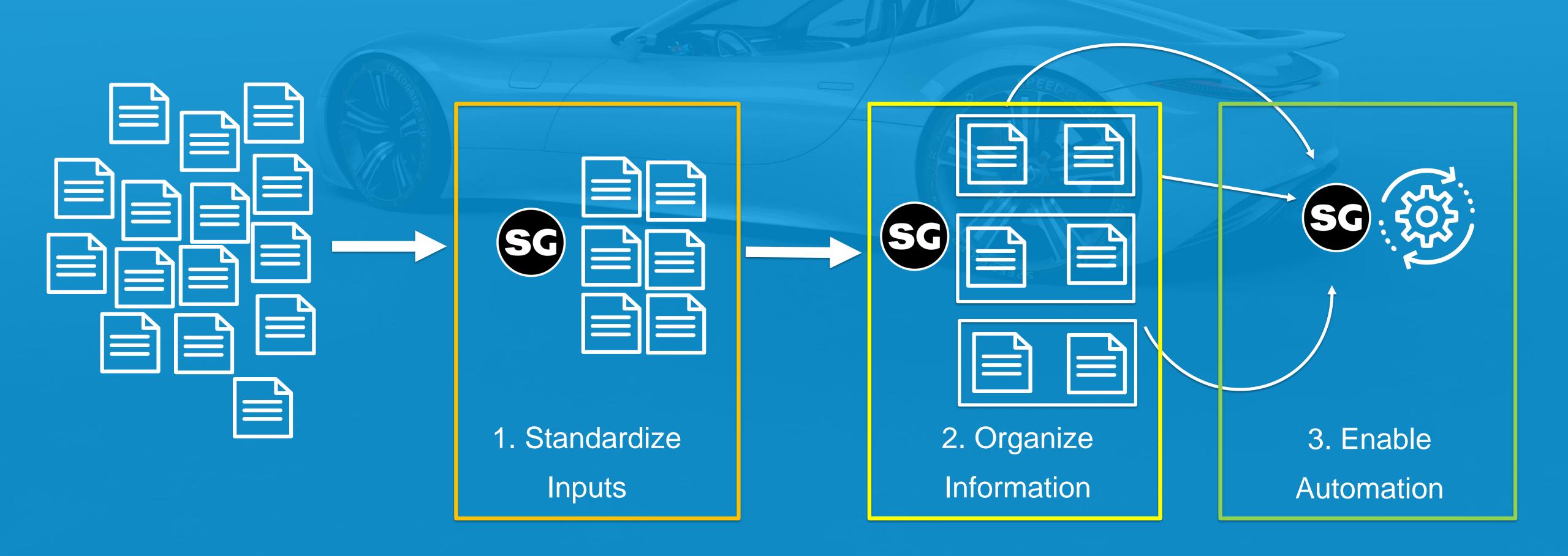
#### Customer Challenges

- Project schedules and statuses are disconnected from everyday workflow
- Collaboration is challenging
- Data and file management is manual



#### Solution

"Use Shotgun to Organize the Chaos & Enable Automation"







#### Automated Workflows

Manual Driven Automations

User Starts a Job

Event Driven Automations

Indirect or Event Starts a Job



#### How Can You Do this?

Hooks!

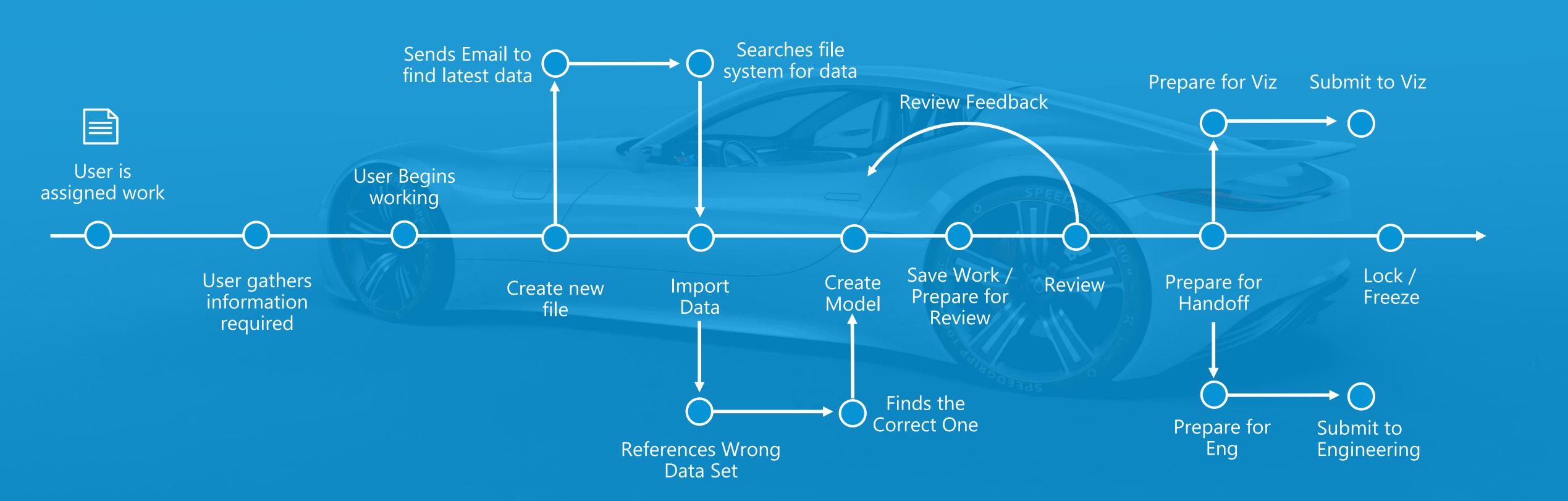
You are going to need to code...

Don't be scared!

```
import os
import pprint
import traceback
from sgtk.util.filesystem import copy file, ensure folder exists
HookBaseClass = sgtk.get hook baseclass()
class BasicFilePublishPlugin (HookBaseClass):
  def icon(self):
    return os.path.join(self.disk_location, "icons", "publish.png")
  @property
  def name(self):
     return "Publish to Shotgun"
  @property
  def description(self):
  @property
 def settings(self):
```

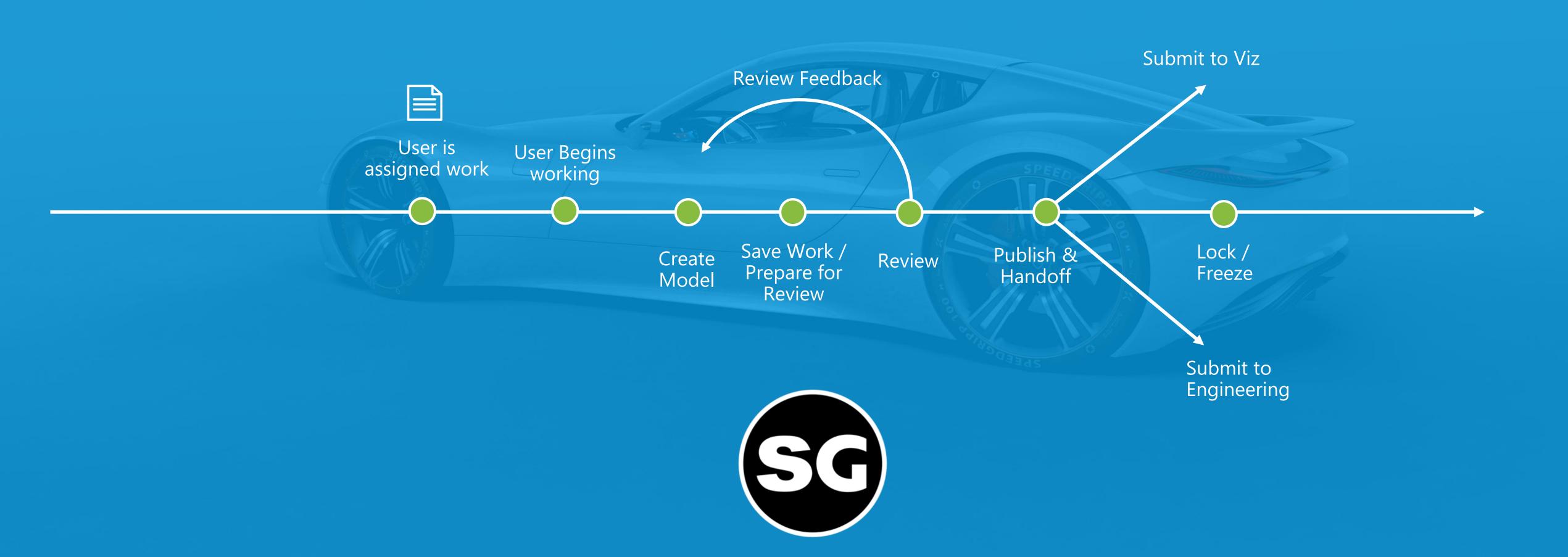
# SG

#### Simple Model Workflow

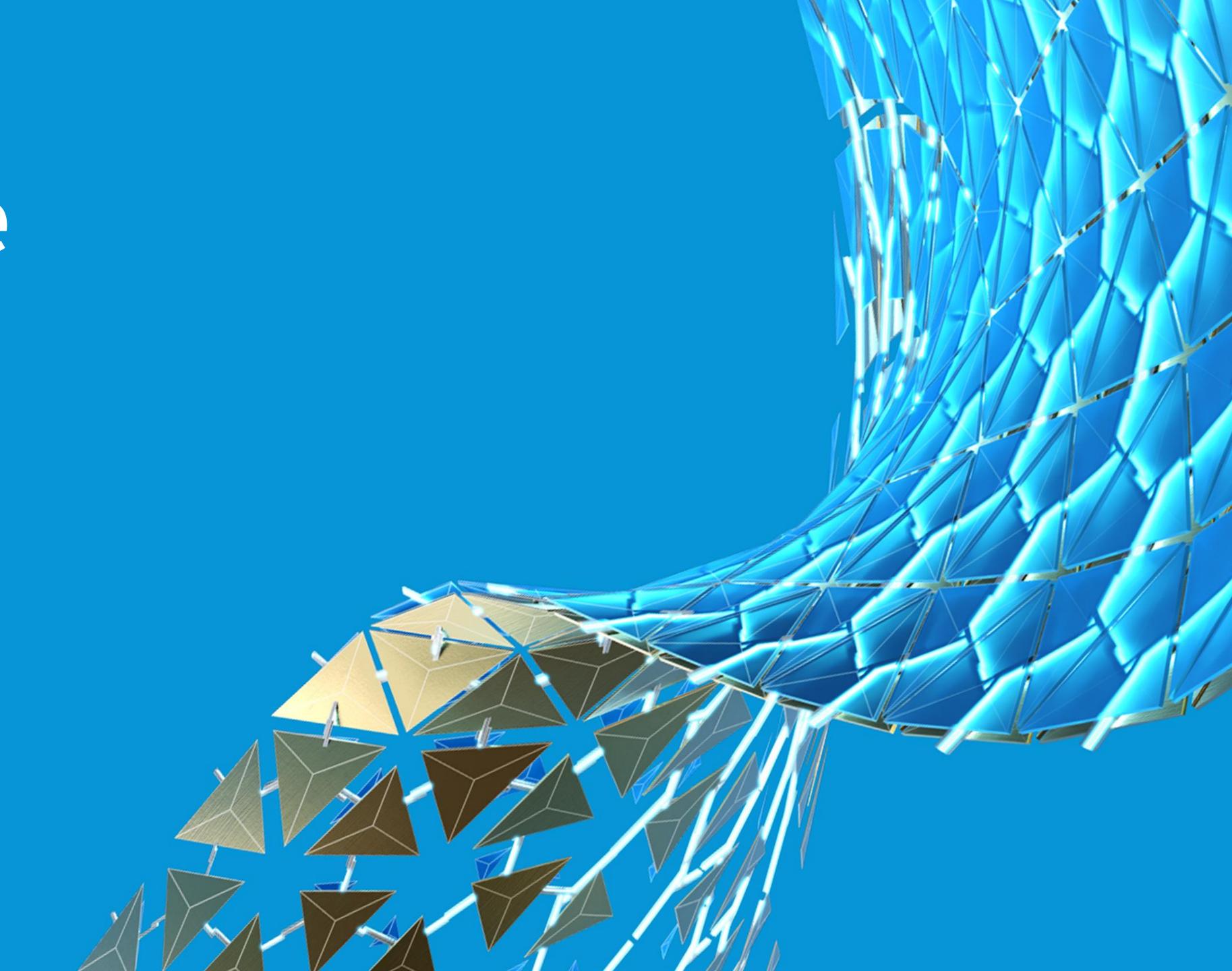


# SG

#### Simple Model Workflow

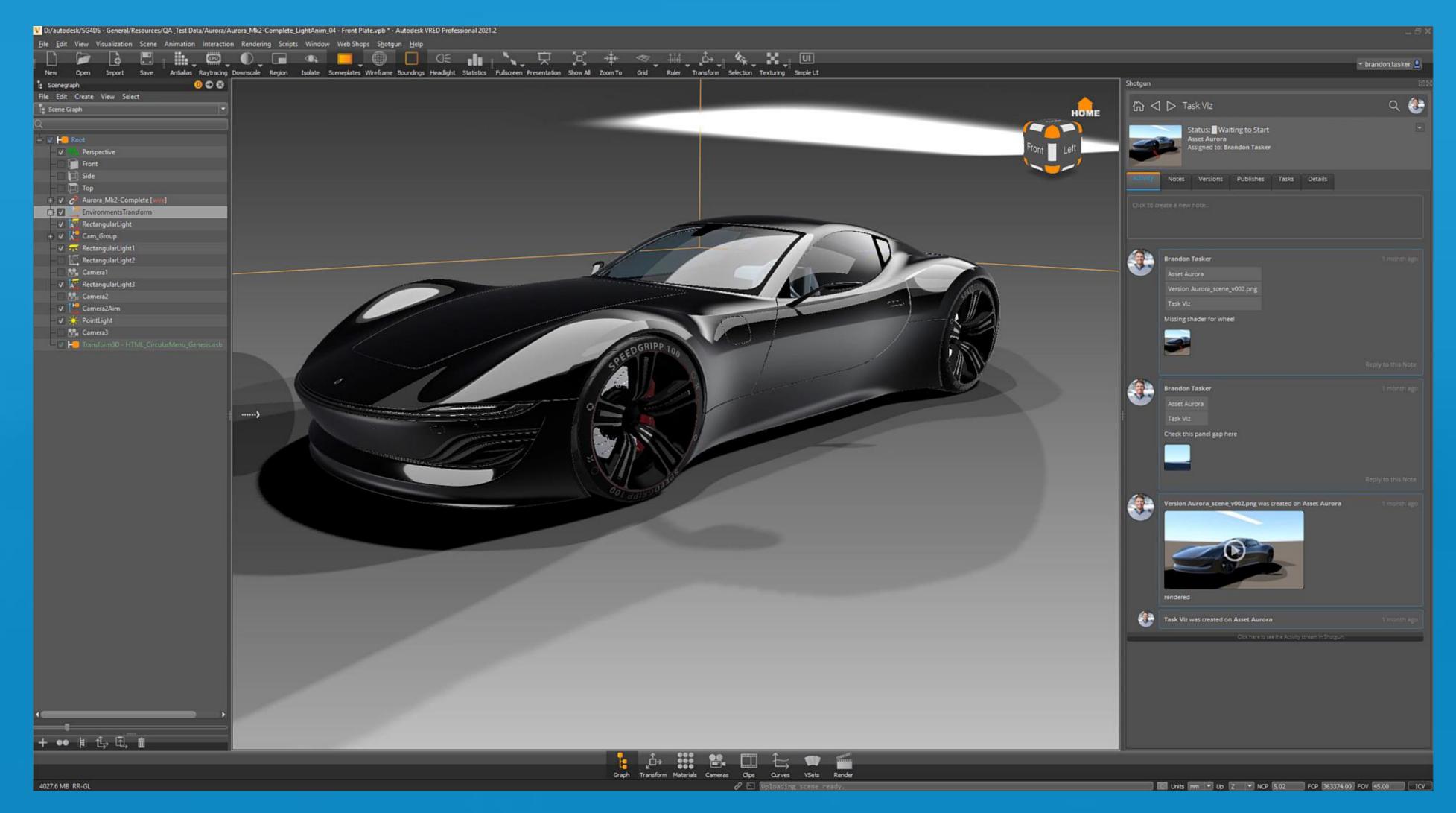


# New File





#### New File | Basic



Watch Video Here



#### New File | Advanced Menu

When I Click "New File" also do...

Import Latest Model

Import Environment & Studio Lighting

Import and Map Basic HMI

Setup Hierarchy / Layers

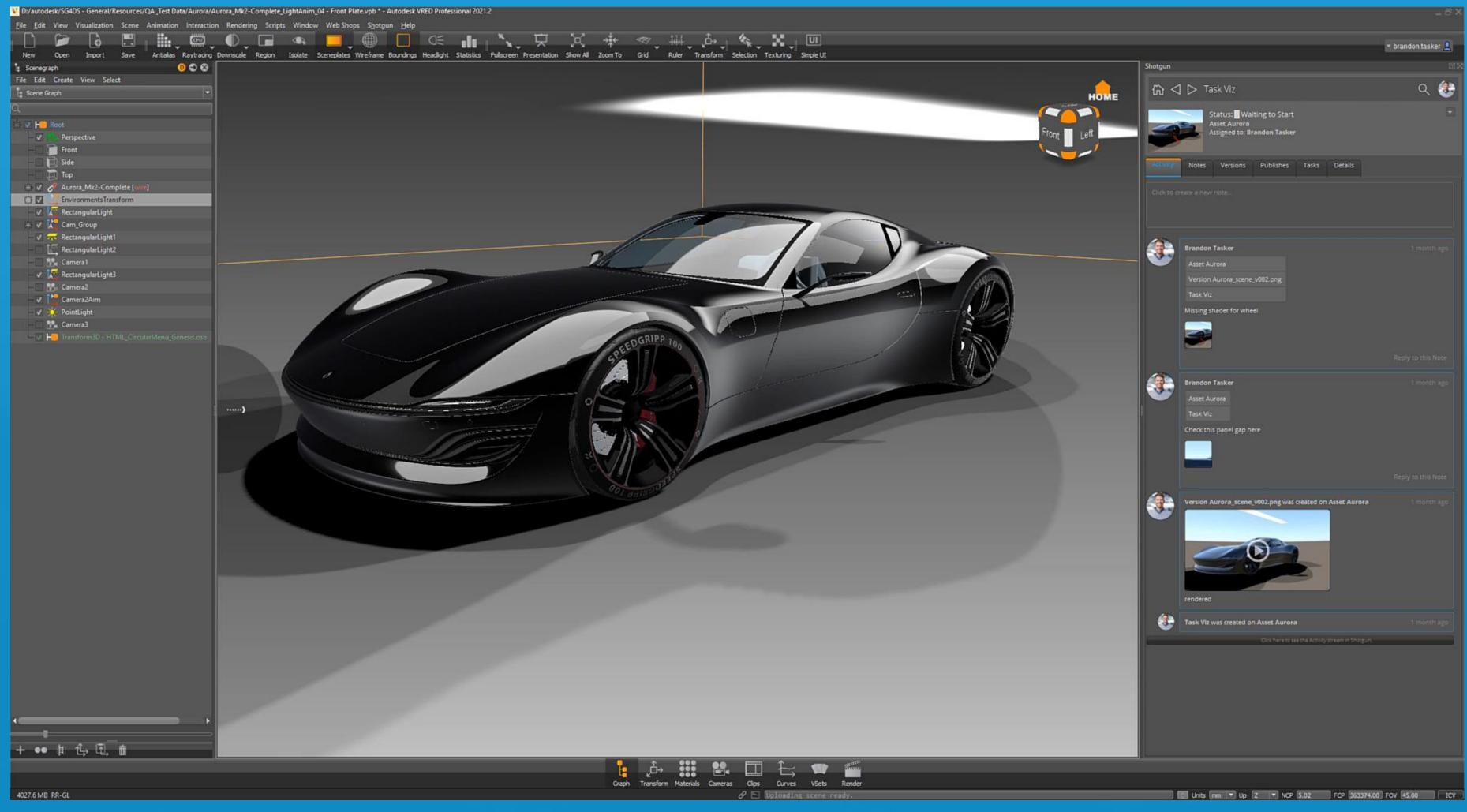
Import Studio Approved Shaders

**Apply Approved Shaders** 

Set Global Settings



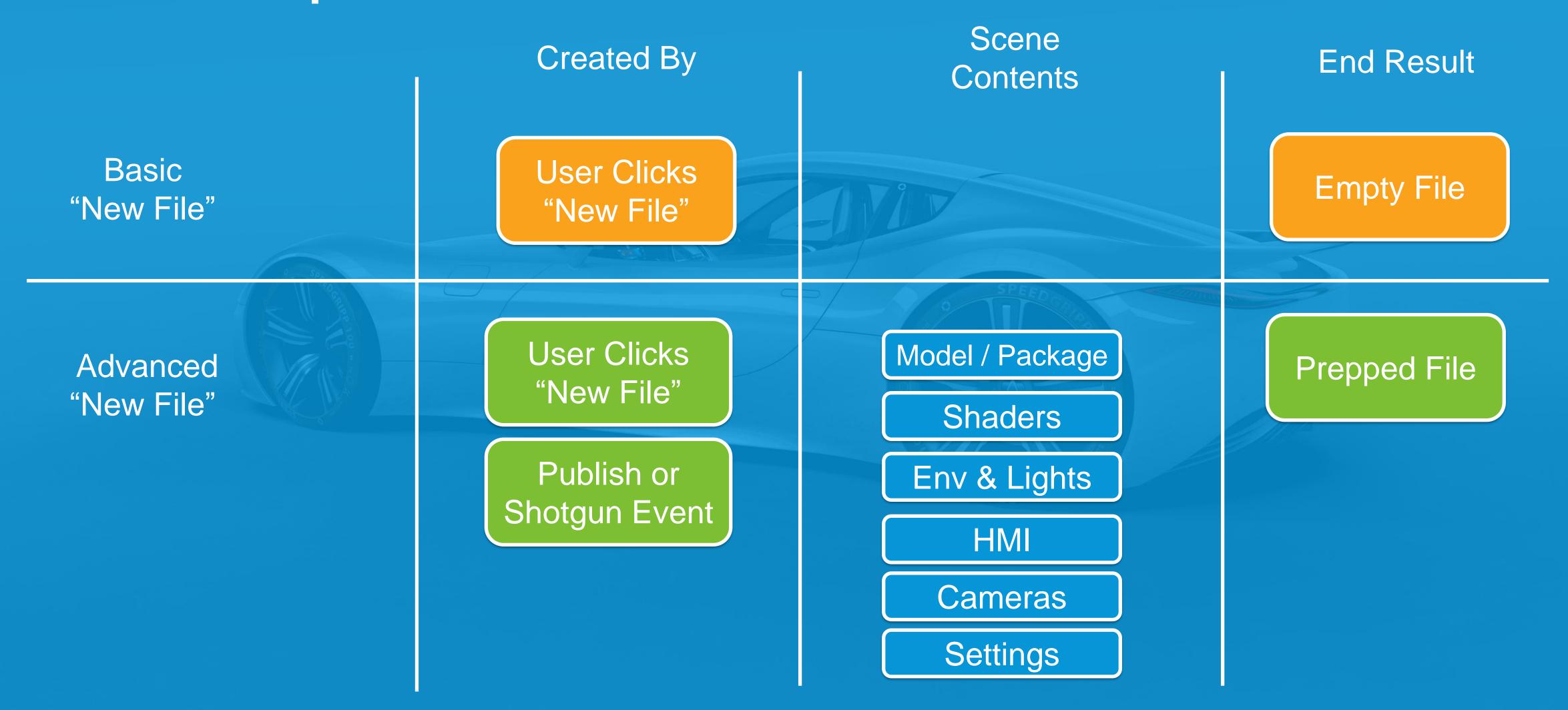
#### New File | Advanced



Watch Video Here

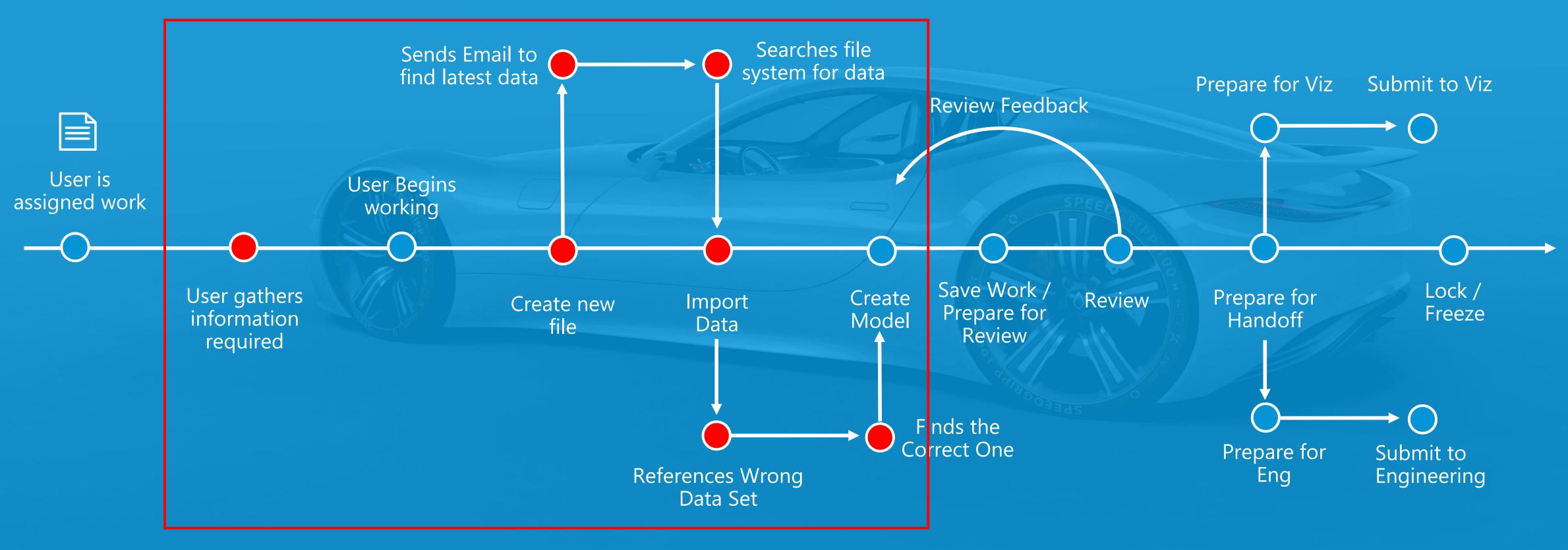


#### New File | Overview



# SG

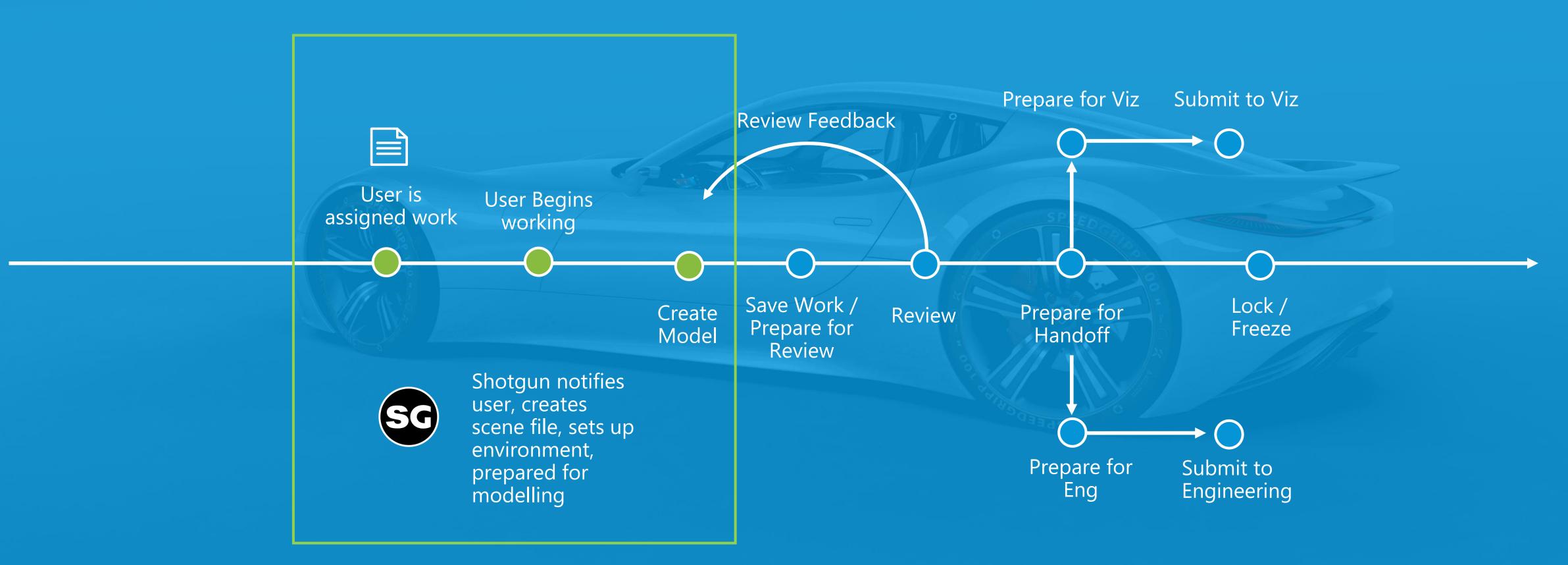
#### Simple Model Workflow



9 Steps

# SG

#### Simple Model Workflow



3 Steps



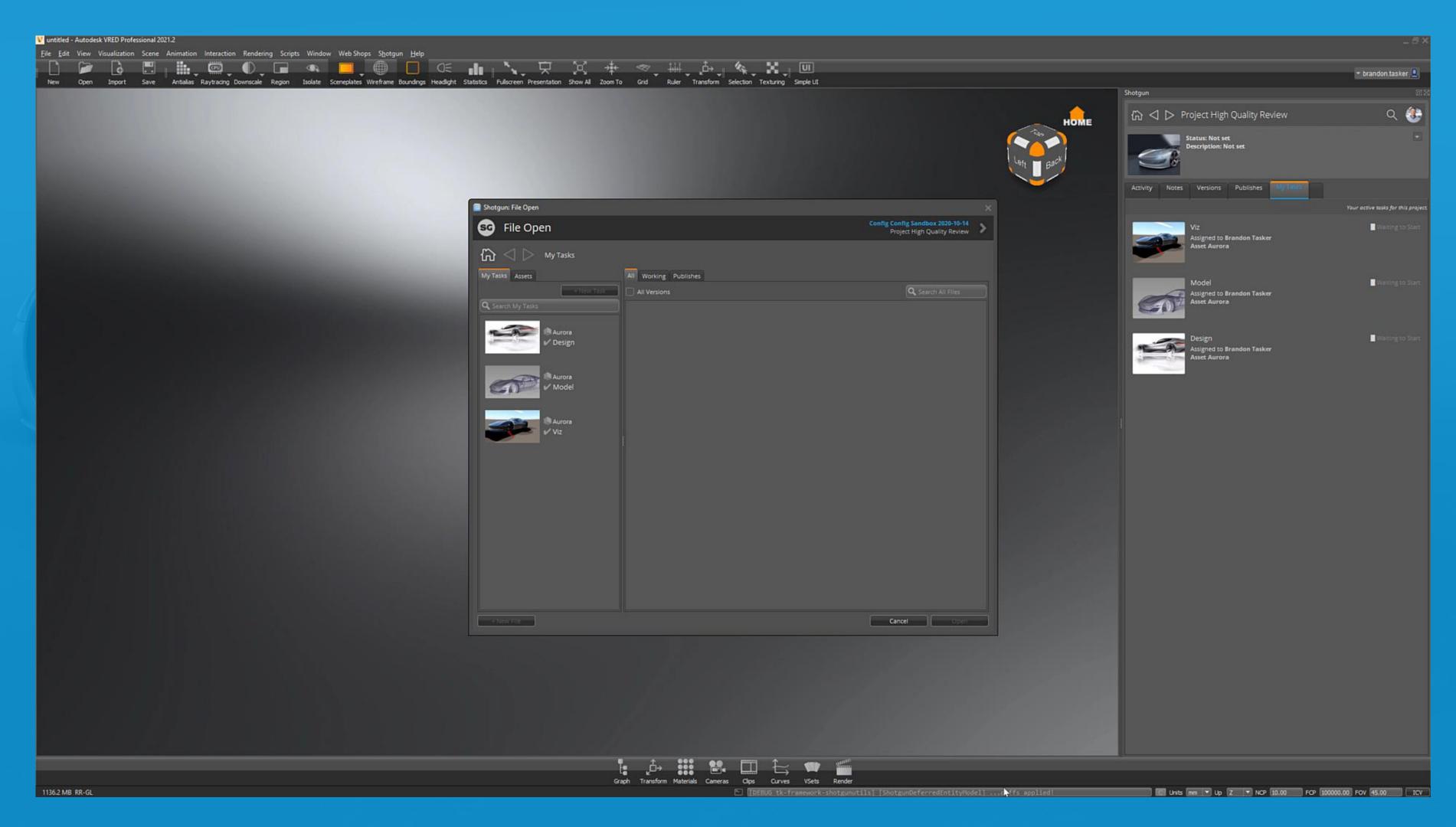
#### New File | Summary

- Saves the Users time!
- Standardizes workflows to ensure consistency
- Increases production iteration speed





#### Opening & Saving | Basic





#### Opening & Saving | Advanced Menu

When I Click "Open" or "Save" also do...

References are up to date?

Automatically updated

Show a dialog for User input

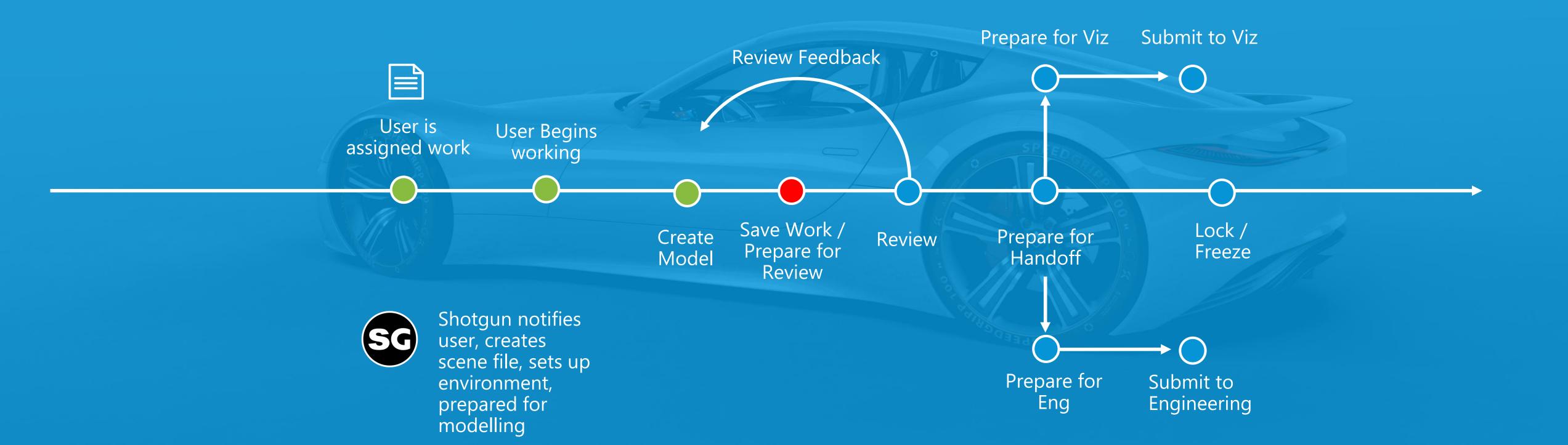
Set Application Settings

File Analysis & Meta-data

Global Sharing

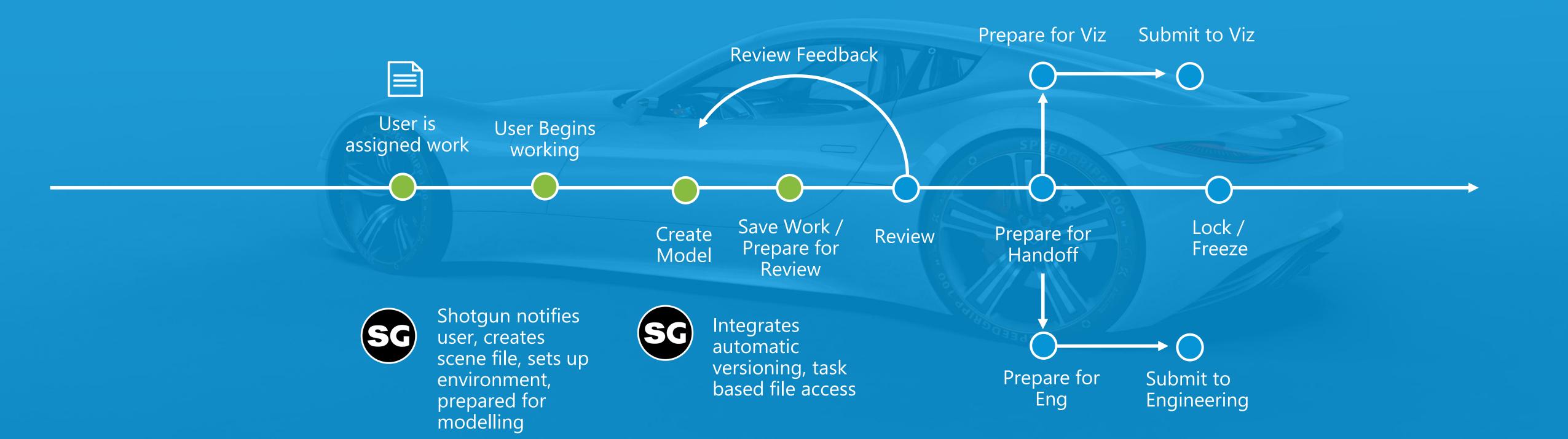
# SG

#### Simple Model Workflow



#### Simple Model Workflow



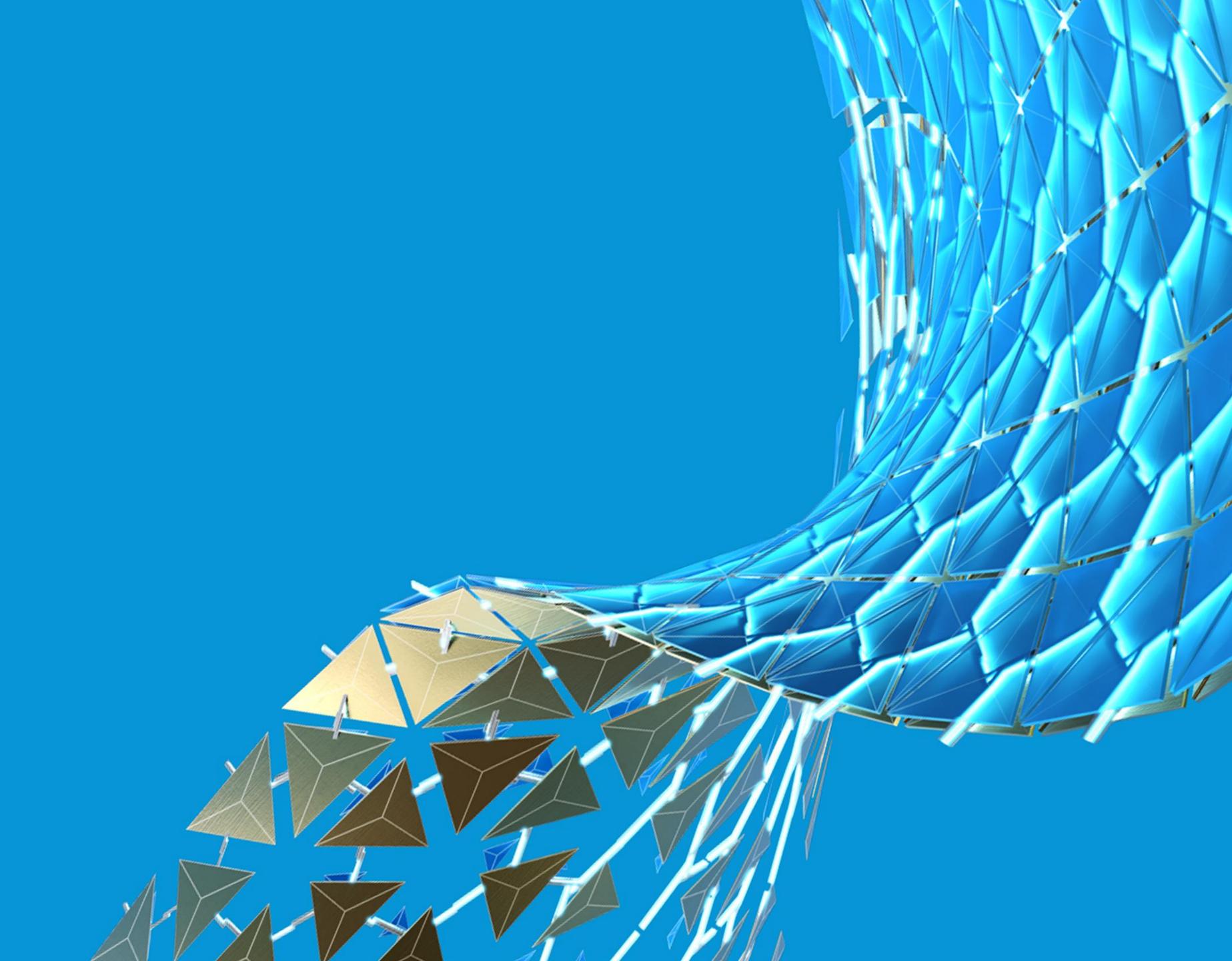




### Opening & Saving | Summary

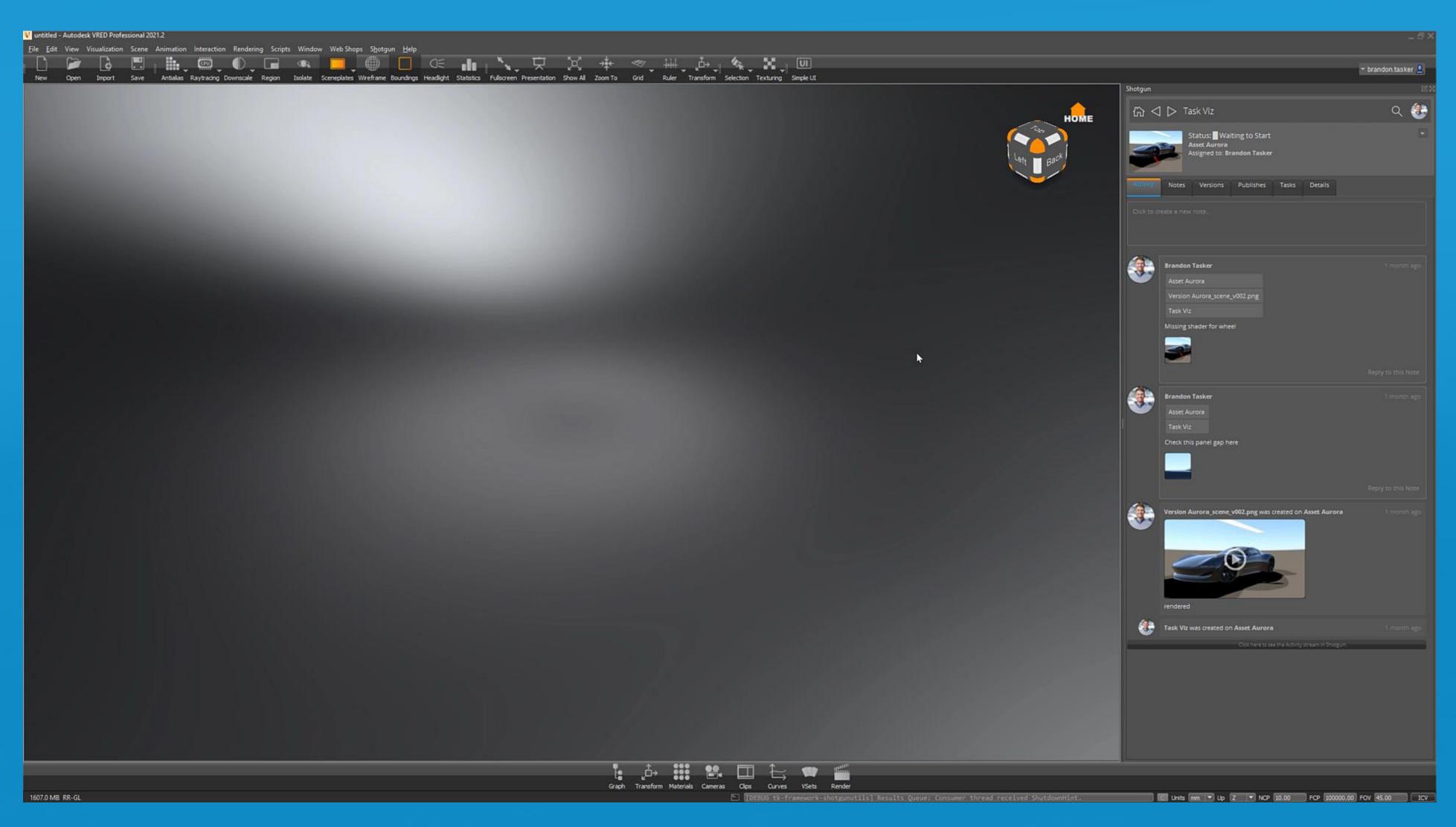
- Saves the Users time!
- Standardizes workflows to ensure consistency
- Increases production iteration speed

# Loading





### Loading | Basic





### Load | Advanced Menu

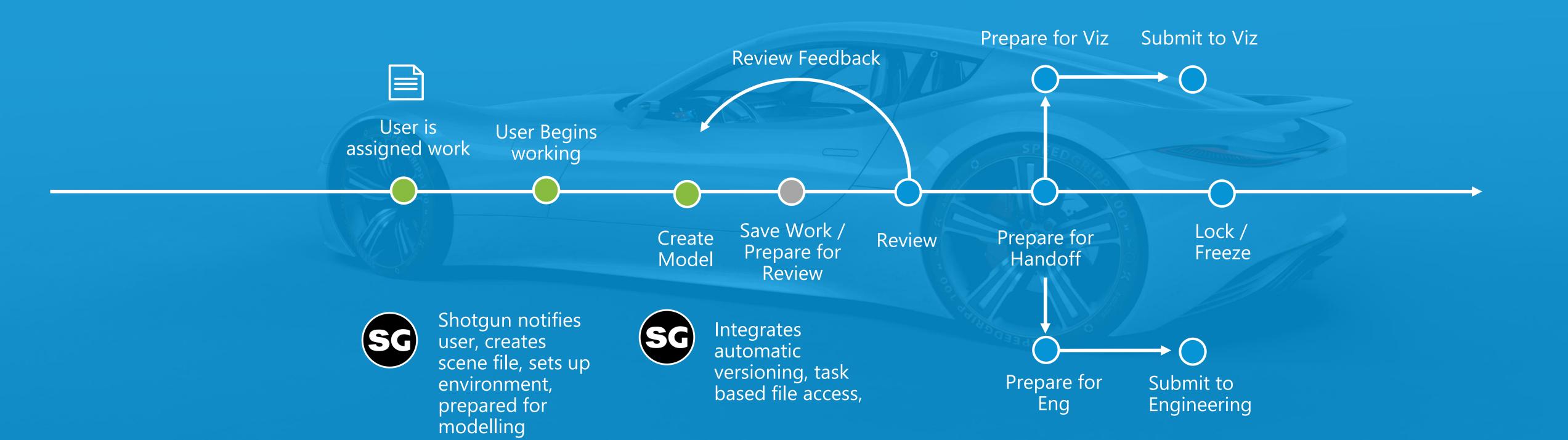
When I Click "Load" also do...

Link in Shotgun for Library pieces

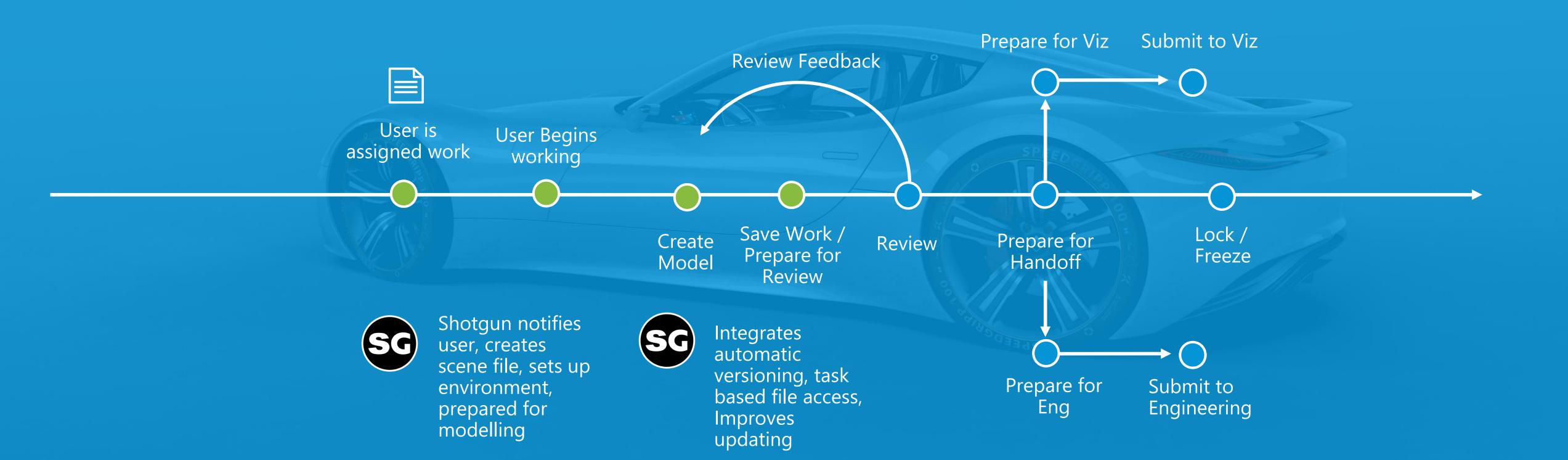
Latest Reference Update

Standardize Import Settings

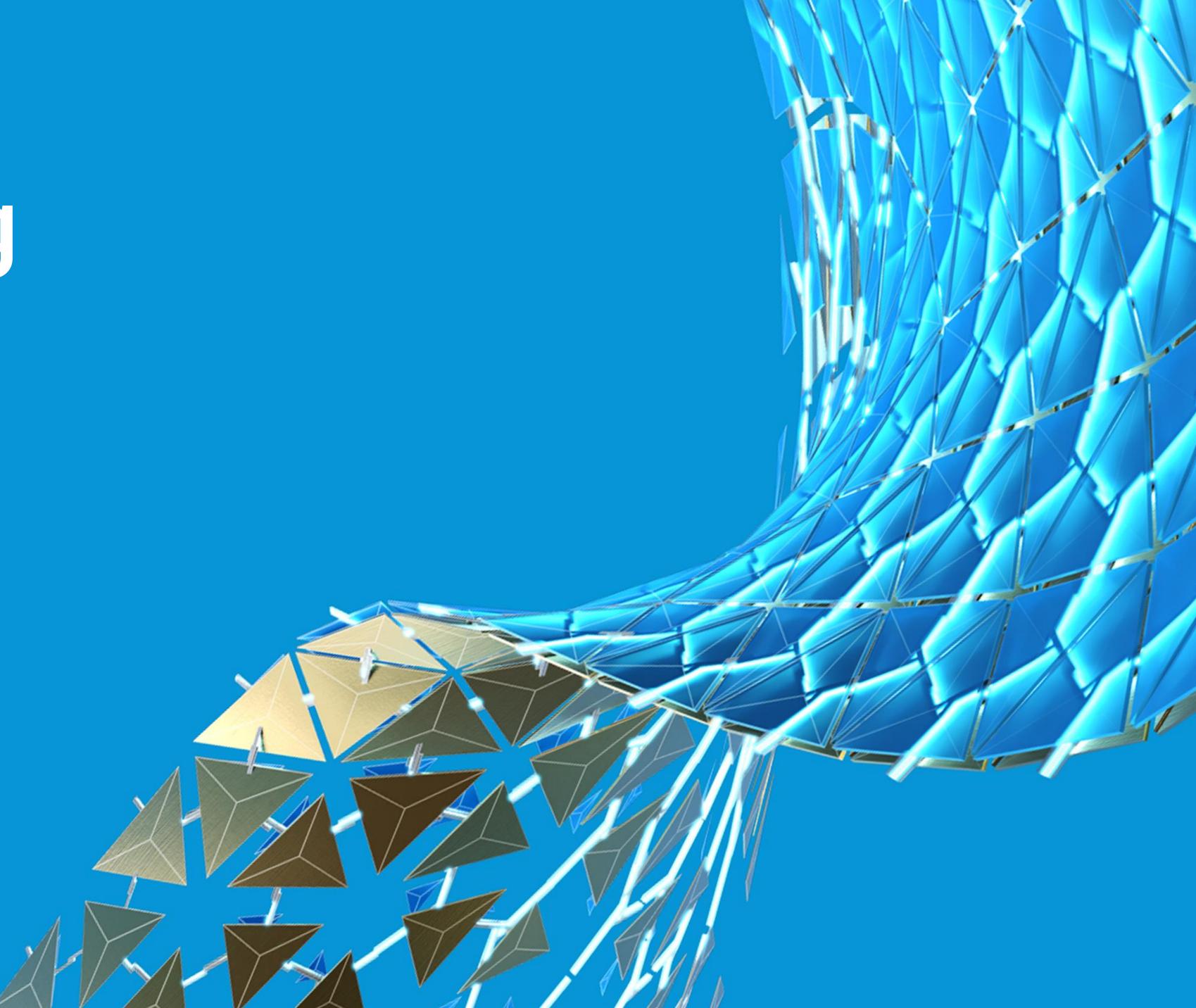






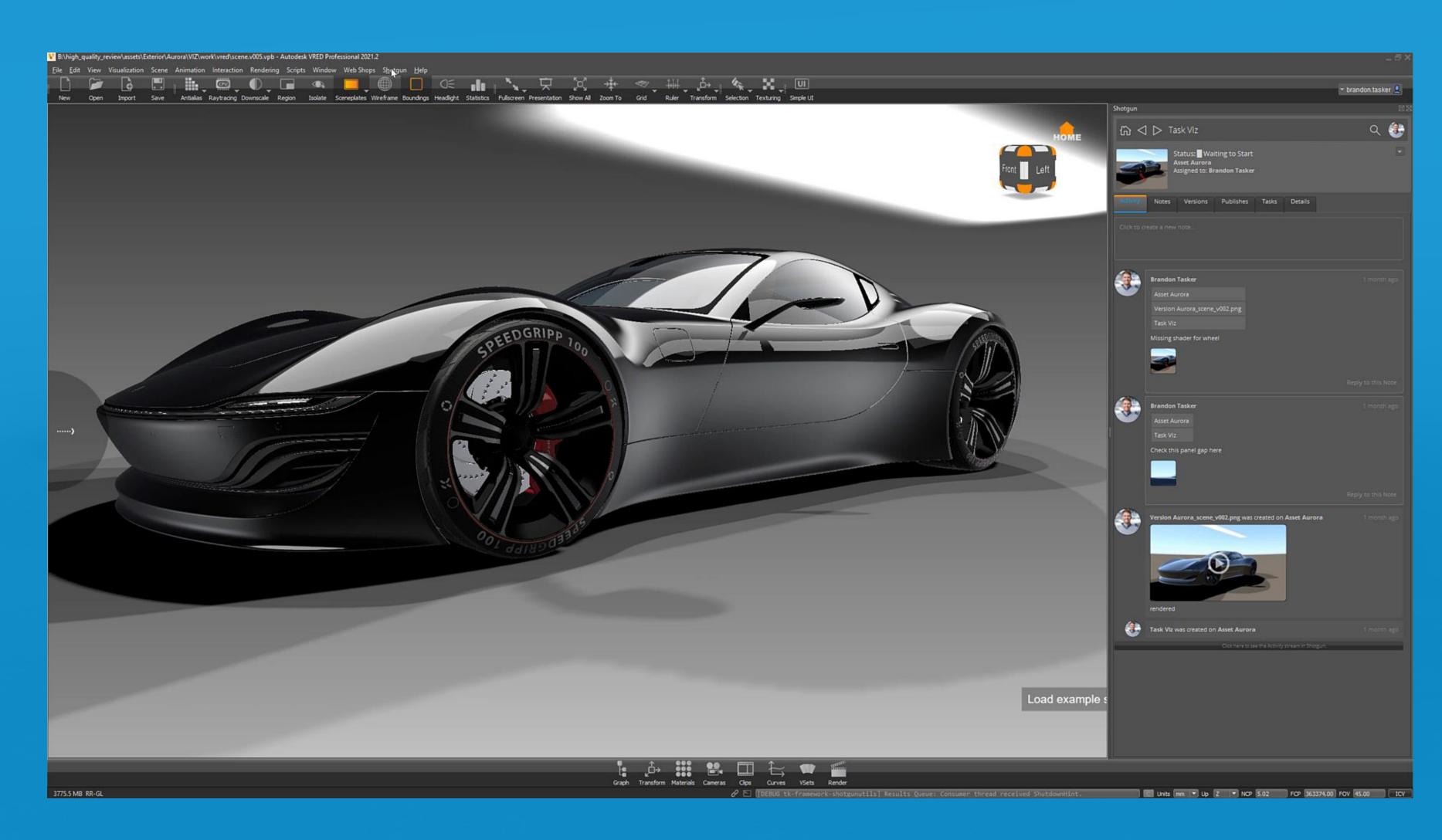


# Publishing





### Publishing | Basic





### Publishing Menu

When I Click "Publish" also do...

Render / Turntable

Simulation

Put into Engineering PDM system

Cleanup File

Prepare for Review

Handoff to Another Team

Prepare for Paint Over

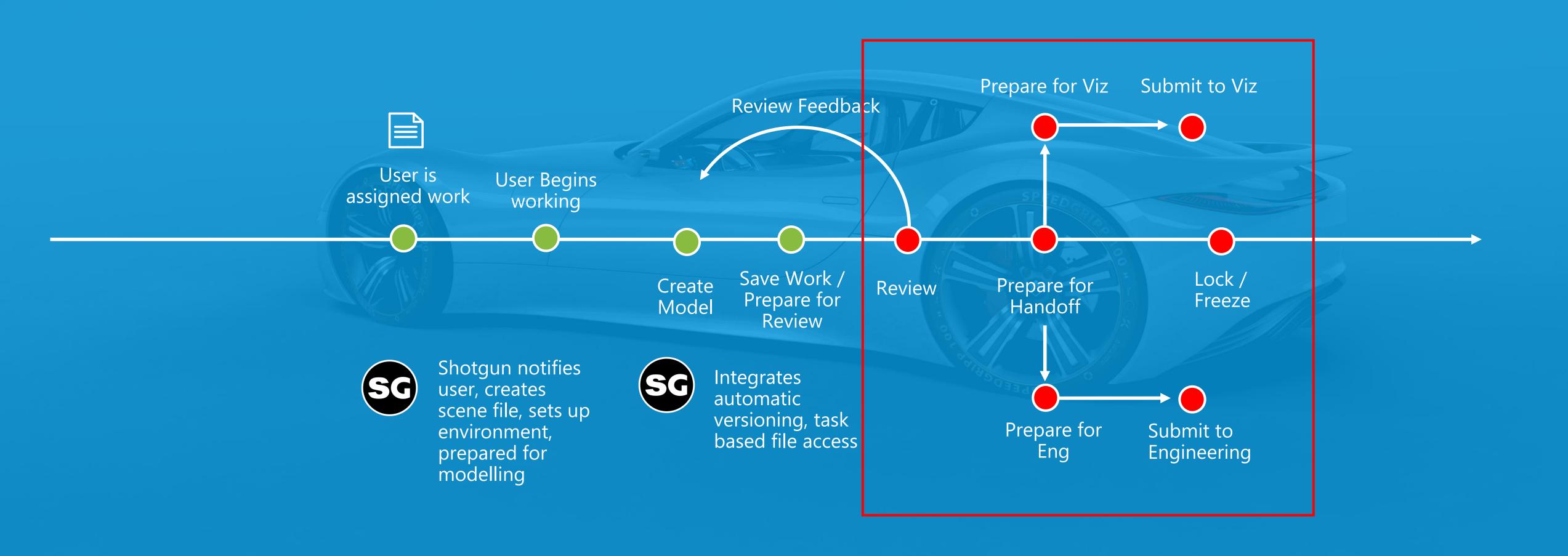
Submit to Computing Cluster



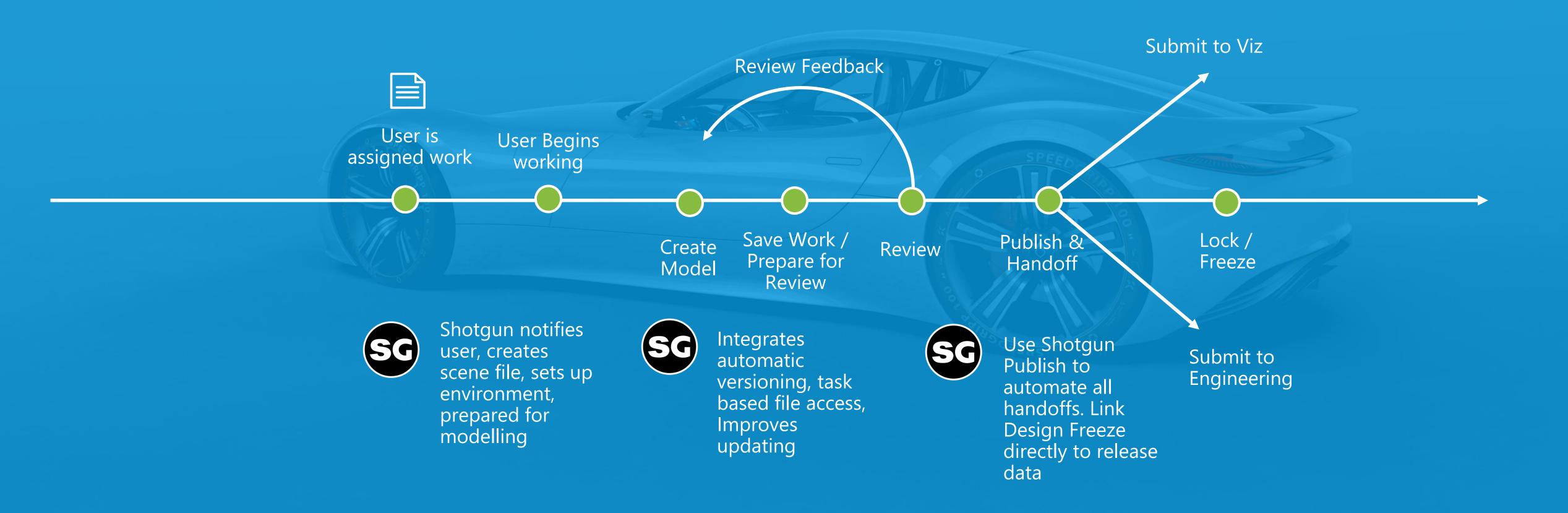
### Publishing | Overview

**End Result Created By** Published File Basic User Clicks "Publish" "Publish" Verison to Review **Advanced Processing** User Clicks Advanced "Publish" "Publish" Handoff Submit to Systems

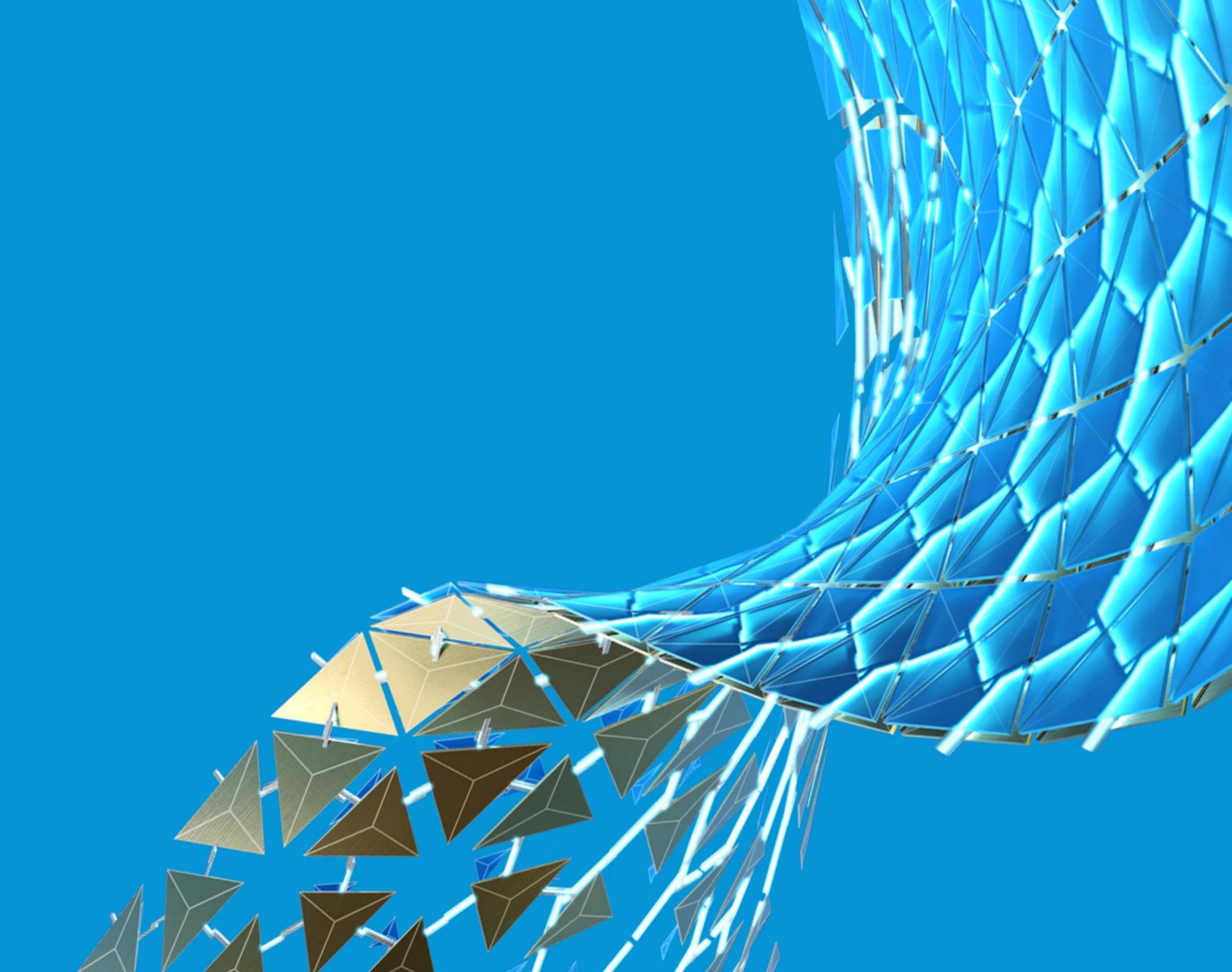
## SG



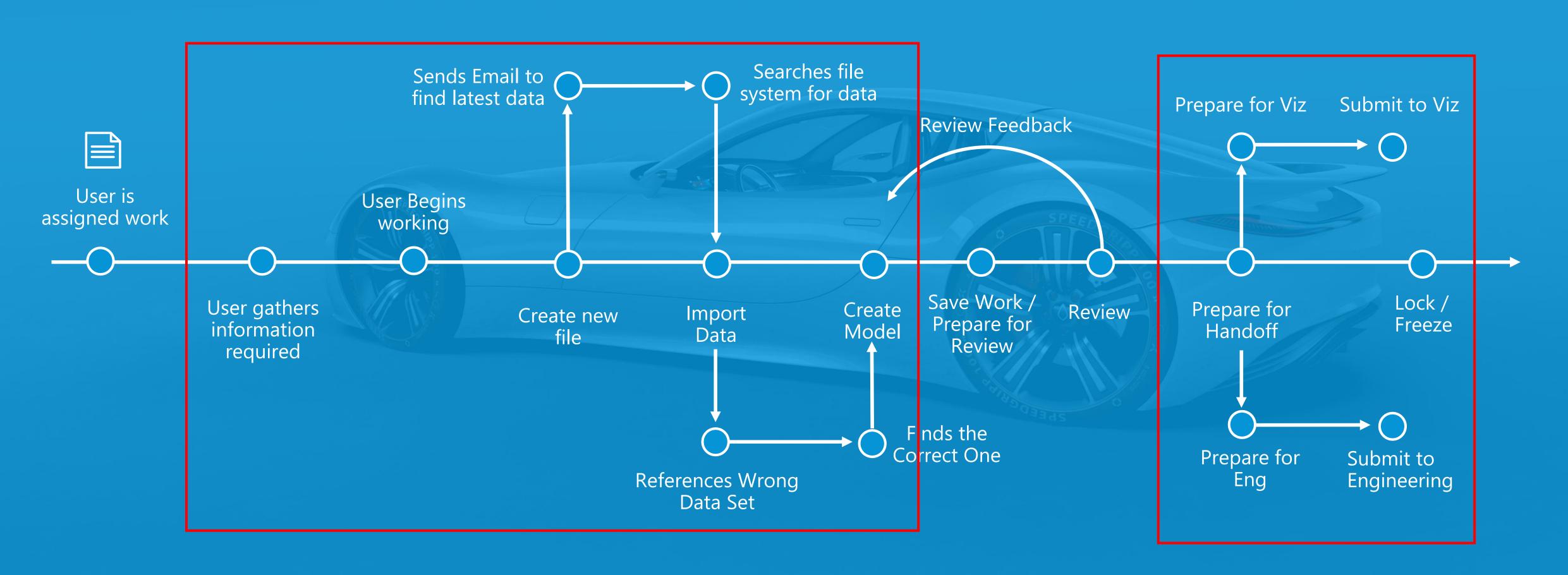




# Vision

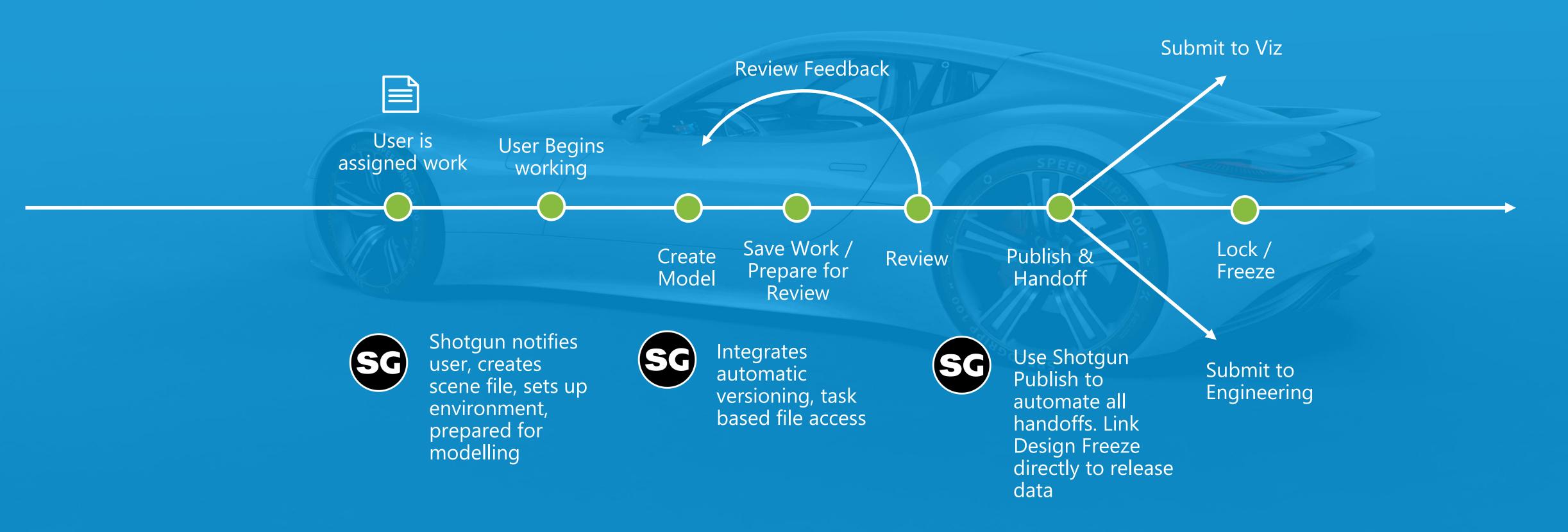


# SG



18 Steps





7 Steps



### Simple Model Workflow Summary



Simplify & standardize the process



Accelerate design cycles



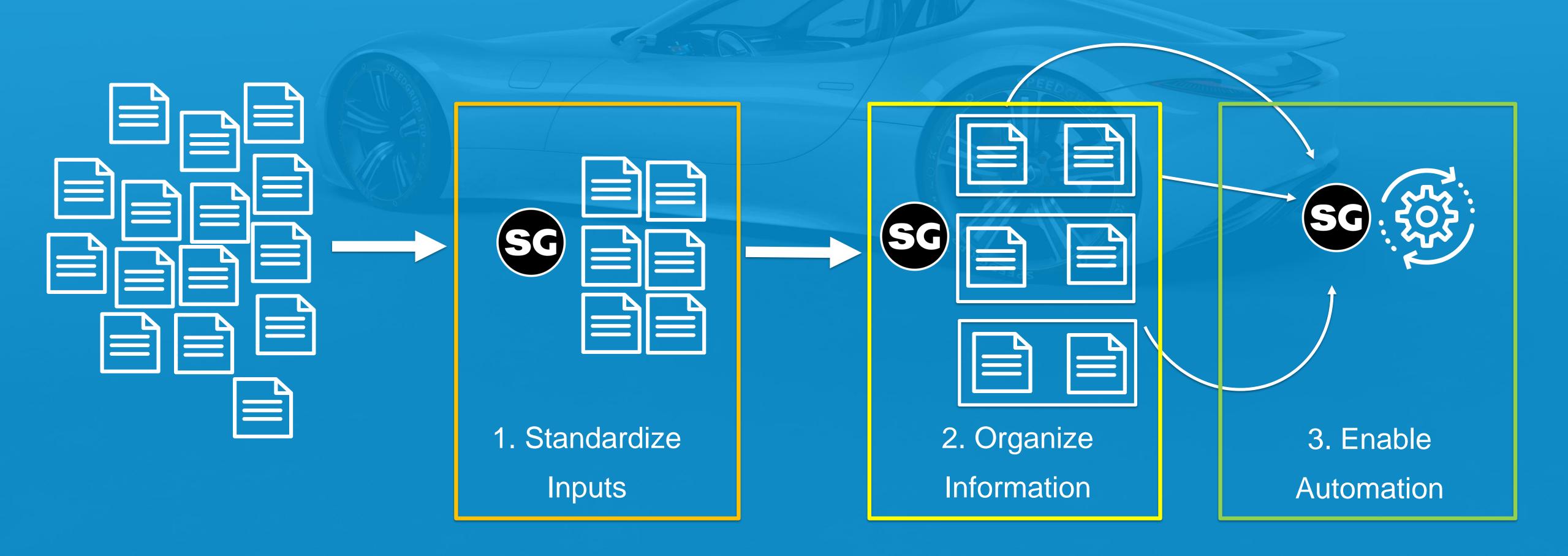
Automate tasks

# How to Get Started



### Solution

"Use Shotgun to Organize the Chaos & Enable Automation"





### Resources

- Standardize Inputs "Before getting started"
- Organize Information "Your First Project"
- Enable Automation "Intro to Hooks"

Find more at developer.shotgunsoftware.com



### Summary

- Shotgun Out of the Box can solve major collaboration challenges
- But, with a bit of effort and customization, Shotgun can provide endless amounts of value
- Integrate seamlessly with your existing processes and help define new ones to bring your studio into the future



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