Welcome & SU2 Year in Review

SU2 Foundation Board
4th Annual SU2 Conference
Varenna, Italy
October 23-25, 2023

Welcome to the 4th Annual SU2 Conference

2016: Delft, NL
2017: Stanford, US
2018: Glasgow, UK
2019: Varenna, IT
2020: Virtual
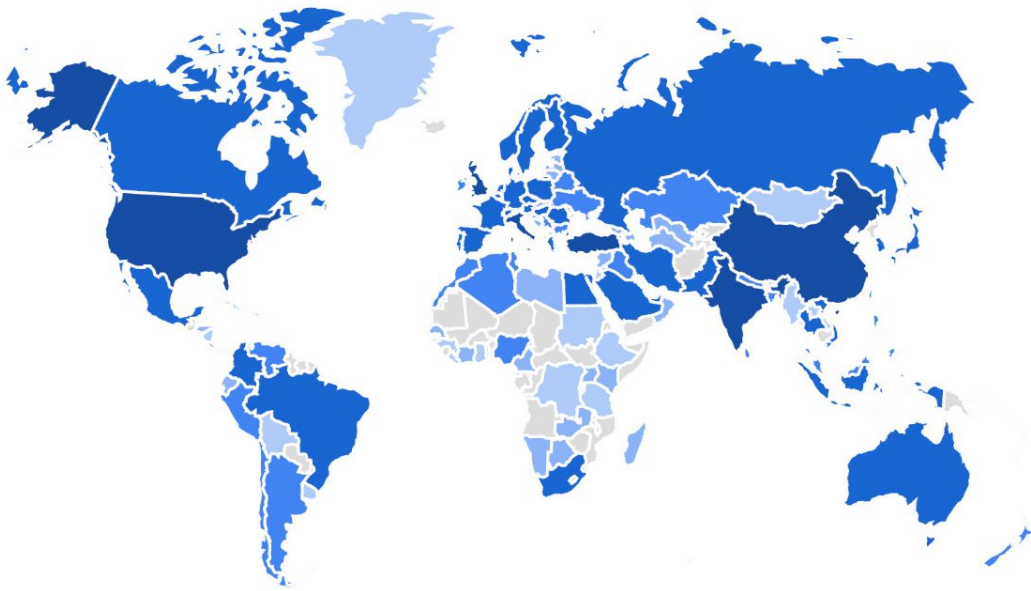2021: Virtual
2022: Varenna, IT
2023: Varenna, IT

Thank you to our local organizers:
Giulio Gori, Francesco Angelo Caccia, Luca Abergo

SU2 foundation
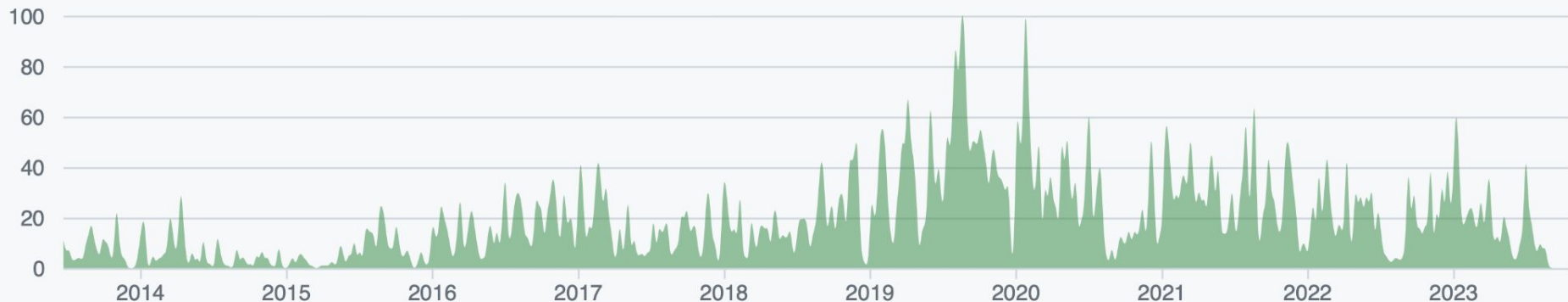
Key Milestones

4th Annual SU2
Developers Meeting
Varenna, Italy
May 2019

Formation of the
SU2 Foundation
May 2019

SU2 Foundation
transitions to NL
March 2023

1st Annual SU2
Developers Meeting
Delft, Netherlands
Sept 2016

SU2 is born!
Jan 2012

1st Annual SU2
Conference
Virtual
June 2020

v3.0

v5.0   v6.0

2012   2013   2014   2015   2016   2017   2018   2019   2020   2021   2022   2023

v1.0   v2.0   v4.0   v7.0   v8.0

Dec 2017
2nd Annual SU2
Developers Meeting
Stanford, CA, USA

Sept 2018
3rd Annual SU2
Developers Meeting
Glasgow, UK

July 2021
2nd Annual SU2
Conference
Virtual

Sept 2022
3rd Annual SU2
Conference
Varenna, Italy

SU2 Project by the Numbers

COUNTRY	USERS
United States	2.1K
China	1.9K
India	1.3K
Italy	796
United Kingdom	560
Türkiye	507
Germany	444

Traffic data at https://su2code.github.io over previous 90 days.

SU2 Development by the Numbers

Commits to the SU2 repository at
https://github.com/su2code/SU2.

5

SU2 Development by the Numbers

Latest release: v8.0.0 "Harrier" on Aug 29 2023

160 Pull Requests Since Sept 2022

1850 repo clones in the last 2 weeks

1000+ repo visits in the last 2 weeks

1666 Commits to 'develop' Since v7.4.0

784 Forks on GitHub

Development Highlights

The highlights of SU2 version 8.0.0 are:

- A complete re-work of the Python wrapper to allow in-memory mesh deformation, increased flexibility to access the solution for post-processing or initialization, and also to manipulate boundary conditions during the solution (see examples)
- Modeling of combustion #1917
- Improved performance for hybrid parallel discrete adjoint solvers
- Data-driven fluid models
- Improved consistency of the SST implementation with literature, with SST-2003m becoming the new default
- …

- Plus many more contributions! See the full contribution list here: https://github.com/su2code/SU2/releases/tag/v8.0.0

Discussion on increasing developer contributions and participation on Tuesday!

SU2 Foundation Latest

- SU2 Foundation is now officially incorporated in NL (Stichting SU2)! Transition from US is complete.
  ○ Same foundation. New location.

- Bylaws:
  https://su2foundation.org/bylaws-of-the-su2-foundation/

- Executive plan has been prepared for 2023-2024:
  https://su2foundation.org/documents/

- 3 new board members joined since last annual meeting: Nijso Beishuizen (treasurer), Tobias Kattmann, Matteo Pini (secretary)

OPRICHTING

van

STICHTING SU2

akte van 18 mei 2022

INCORPORATION
(unofficial translation)

of

STICHTING SU2

deed of 18 May 2022

JE MAINTIENDRAI

SU2 Foundation Latest

- Finances are headquartered in NL

- Foundation has applied for ANBI status (non-profit)

- Financial overview posted publicly: https://su2foundation.org/documents/

- Thank you to our generous conference sponsors: Bosch, Cenaero

Discussion session to overview plans and gather feedback later today!

The Meeting Agenda

- Find the latest information and links during the event:
  - **https://su2foundation.org/su2conference2023/**

- 33 live talks in 15 min format (+4 min Q&A, +1 min transition)
  - 2 days with 4 sessions per day
  - Each day concludes with a discussion session (foundation + development)
  - Talks will be recorded and posted to the web afterwards (with permission)
  - Please leave your questions in the GTW chat for 4 min Q&A after each
  - On-site: coffee breaks, lunch, and dinner provided (Mon/Tues)

- Day 3: Turbo Workshop!

Turbo Workshop – Agenda

Date: Wednesday, October 25th (Fermi room)

Chairman

Matteo

Ale/Ash

Josh

- 9–9:45 Introduction

- 9:30–10:30 Turbo-features: mixing plane, performance,…

- 10:30–11:00 Break

- 11:00–12:30 Tutorial part 1

- 12:30–13:45 Lunch

- 13:45–15:00 Tutorial part 2 + Q&A

- 15:00–18:00 Coding session (break included) – room TBD

Awards

2023 Award for Contribution to the SU2 Community

This award is given annually to the person making the most outstanding contribution to the progress of the SU2 project during the past year, as determined by peer nomination. Please submit your nomination to the Awards Committee Chair, Dr. Nitish Anand using the provided electronic submission form. The person receiving the most nominations will be named the recipient of this year's award.

Congratulations again to last year's awardee (2022): Tobias Kattmann

2023 SU2 Conference Best Presentation Award

After the final talk on Tuesday, we ask that you express your opinion on the submitted talks by filling out an anonymous voting form. The author(s) of the talk receiving the highest score will be named the recipient of this year's award.

Congratulations again to last year's awardee (2022): Nijso Beishuizen

Awards will be announced at the conclusion of the conference. The winners will receive an award that consists of a small token of appreciation and voucher.

Links for submitting votes can be found here: https://su2foundation.org/su2conference2023/

Join Us!

Here's how you can get involved:

- Get in on the action on GitHub: **https://github.com/su2code/SU2**

- Weekly developer meeting (open to all):
  - Alternates 0700-0800 PT / 1600-1700 CET on Wednesdays and 1000-1100 PT / 1900-2000 CET on Tuesdays
  - **https://meet.jit.si/SU2_DevMeeting**

- SU2 workspace on Slack for communication among developers: **join here**

- Contact us about SU2 Foundation programs and sponsorship: **info@su2foundation.org**