VW/Y

#### MIT STAMP WORKSHOP

# VisualPro - Blended Analysis Software

(STPA & CAST, and Others)







## Introduction 01 00 Key Features 02 00 Roadmap 03 00

VW/Y

# 01 Introduction

- VWAY
- VisualPro?

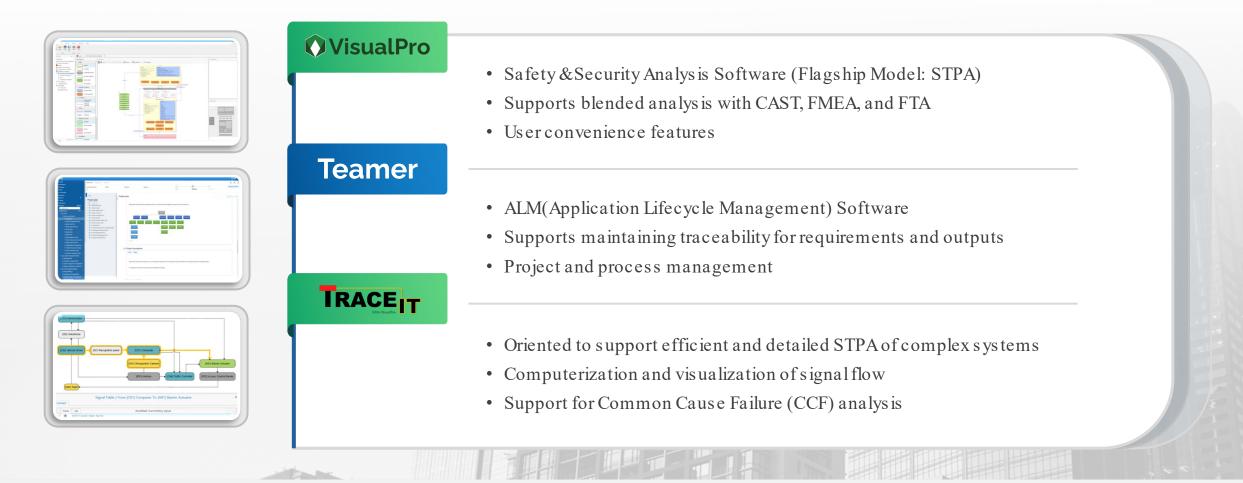


## 01 Introduction



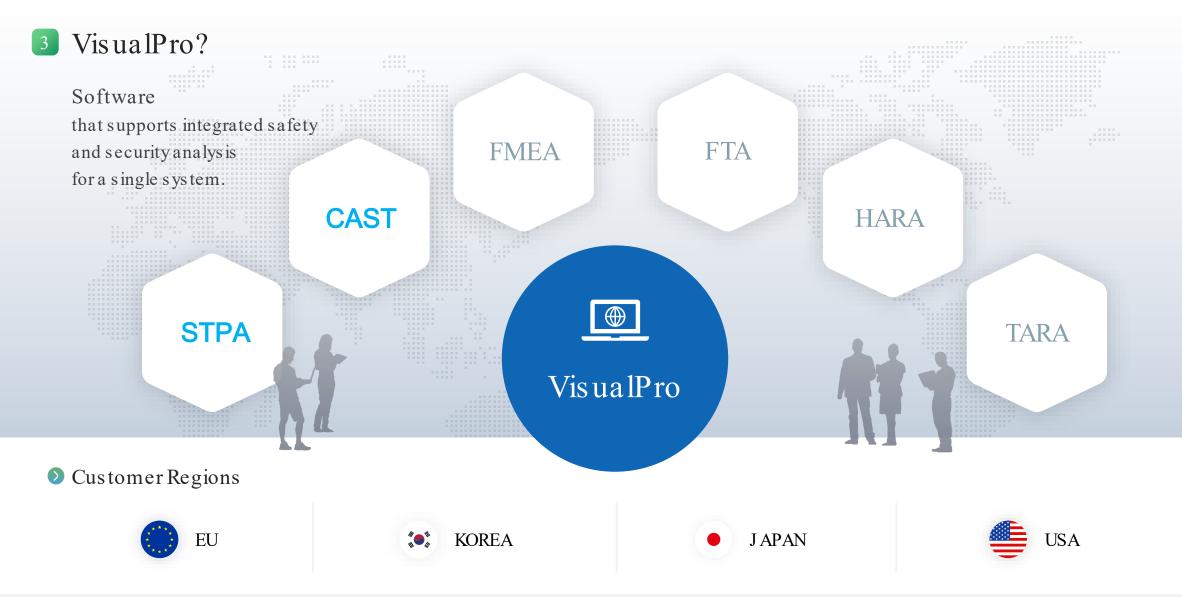
#### 1 VWAY

- Software development company based in Republic of Korea
- Software needed for the engineering process



01 Introduction





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# 02 KeyFeatures

- STPA
- CAST



## 02 KeyFeatures

## VW/Y

### **1** Convenience Features (STPA)

 Automatic report generation (Word, PPT, Excel)

Reusable features

for Control Structure, UCA, Loss Scenarios.

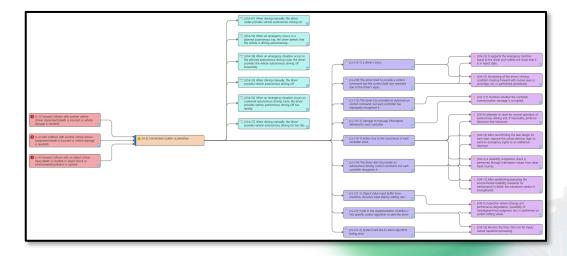
omous Driving Integrated Control Sys

## 02 KeyFeatures



### 2 Traceability and Dashboard (STPA)





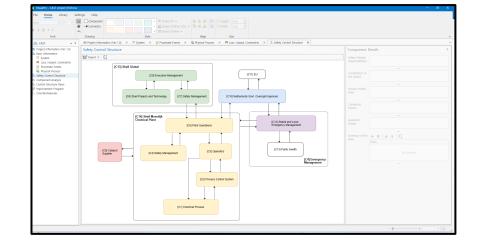
Dashboard of STPA data and analysis status.

Traceability Visualization from Loss to Countermeasures.





### 3 Support CAST procedures (CAST)



You will soon be able to try the CAST evaluation version.

Countermessures		
Countermeasure	Related Analysis	
Regularly calbrate and maintain all sensors involved in the detection and (241) control of flucations allocations to ensure accounter readings and early effection of anomalies	(Proximate Events) [E-1] The plant had been shut down for a short, scheduled maintenance stop (called a pit stop) to replace the catalyst peliets and was being restanted	1
	(Physical Process) (IC-2) The plant was not fitted with pressure relief valves that would have prevented a nunaway. Those that were installed were not designed for the rapid pressure increases that occurred	
	Dergy related during the summing of the match led to unforces the electrical networks the summing to liquid problements and the acting head in the dry social processing of the set of the	
	The design of the entire safety management system should be evaluated and improved. In addition, the integration of the safety management system and the business (Control Structure Flavs) [FR3] management system should be carefully examined to ensure that hazed and rick-related information is not being effectively communicated to decision makers by being traded of all's introproportably low levels.	
	Bett supervision of the highest risk schelles is needed, including turnaround, Regulators eved to overse and exerus that static procedures are byought of the higher many schelles and the high schell proceedings and the high schell proceedings and the schell procee	
	Fit the discips fasters contributing to accident. Determine how these faves get through the design process and improve both the design and the design interver processes. (improvement Program) [CAR] (Ref (Exect) (Ref (Exec))	
	[Improvement Program] (CR4] - Hazard analysis and risk assessment methods need to be improved.	
Implament comprehensive training programs for operators that focus on (CO2) emergency regiones, system failures, and the handling of hazardous materials to enhance their readness and effectiveness during orbical instantions.	(Proximate Events) [E-4] An automatic protection system was triggered that was designed to prevent liquid from entering the exhaust gas system (flare). But preventing the liquids from entering the flare	
	(Proximate Events) [E-7] The contents of the reactor and its associated separation vessel were released into the wider environment. Sections of the reactor were blasted across 250 meters while other debris used as later found 800 meters away.	5
	(Physical Process) (IC-2) The plant was not fitted with pressure relief valves that would have prevented a runaway. Those that were installed were not designed for the rapid pressure increases that occurred	1.
	[Physical Process] [PR-4] Provide indicators (alarms) of the existence of hazardous conditions	
	[Physical Process] [PR-5] Convert released chemicals into a non-hazardous or less hazardous form	

Drawing Safety Control Structure

Traceability for countermeasure.

# 03 Roadmap

VisualProRoadmap







