

7ème édition de la  
Soirée du  
Test Logiciel

Sophia  
Antipolis



17 octobre 2024  
17h à 22h30



Polytech Nice  
Sophia à Biot



Soirée du  
test logiciel

Sophia Antipolis

Conférence

Apport du Computer Vision  
dans l'automatisation des tests  
des applications packagées et industrielles



Thierry ZUZEL  
Eggplant Sales Director



- ✓ Assurez les tests fonctionnels de bout-en-bout
- ✓ Tester l'ensemble des cas de test sur la durée limitée définie pour le Sprint
- ✓ ROI et réduction des temps de maintenabilité lors des montées de version
- ✓ Assurez une transition entre le test manuel et l'automatisation de manière simple
- ✓ S'inscrire dans une industrialisation Devops



## Application Packagée

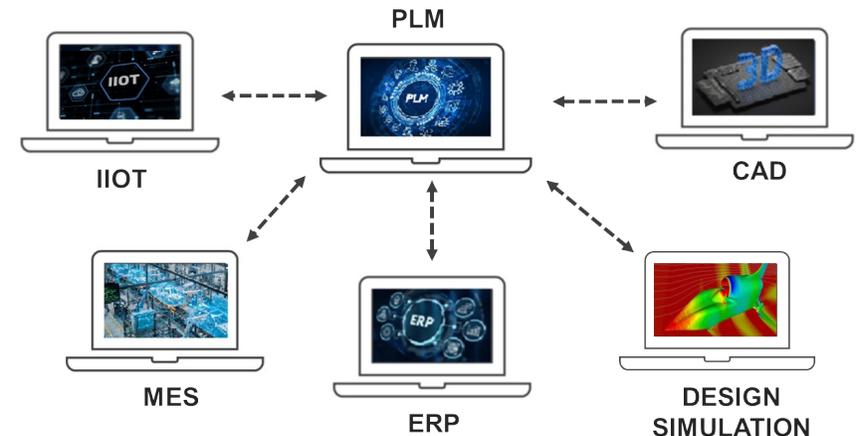
- ✓ Identifiant dynamique des objets HTML
- ✓ Iframe, Pop Up
- ✓ Client lourd

## Service applicatif de bout-en-bout

- ✓ Customisation (fonction métier spécifique)
- ✓ Application tierces et/ou plugin à prendre en compte
- ✓ Ressenti utilisateur et stabilité de la performance applicative

## Mises à jour fréquentes

- ✓ De la part de l'éditeur
- ✓ Evolution de la customisation
- ✓ Peu de temps pour tester et détecter les non régressions





Soirée du test logiciel

# Computer Vision pour les besoins métiers omnicanaux

Conférence

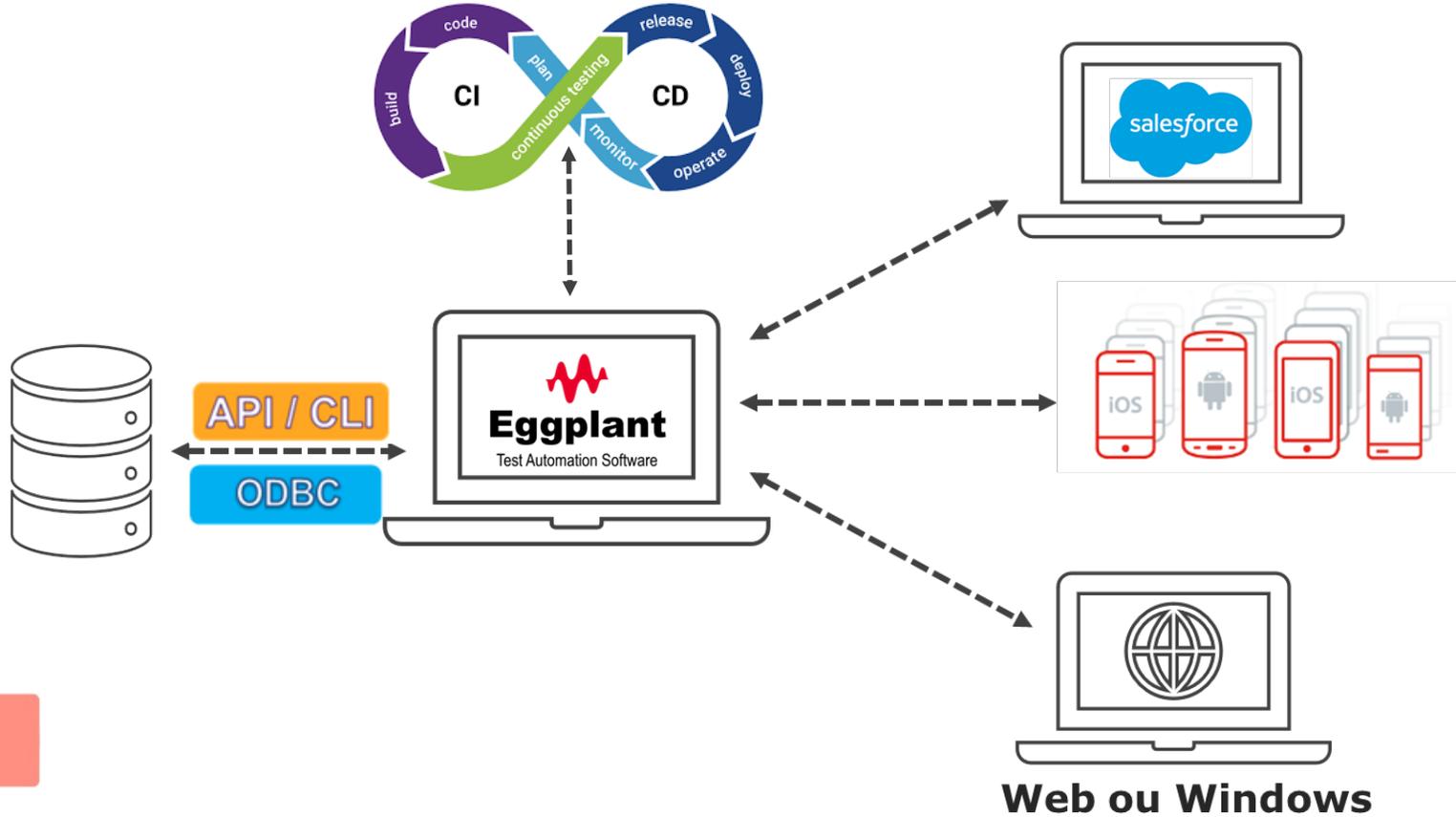
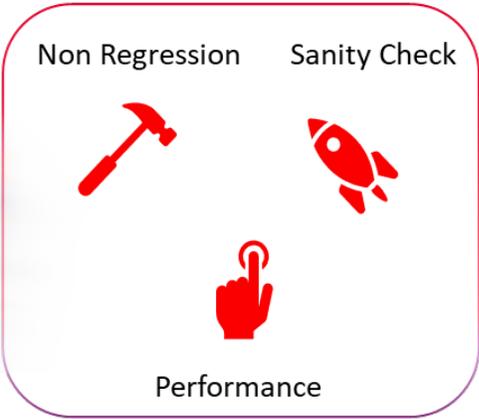


IMAGE RECOGNITION

OCR

## Computer Vision



Non Regression    Sanity Check




Performance



IMAGE RECOGNITION    OCR

# Computer Vision

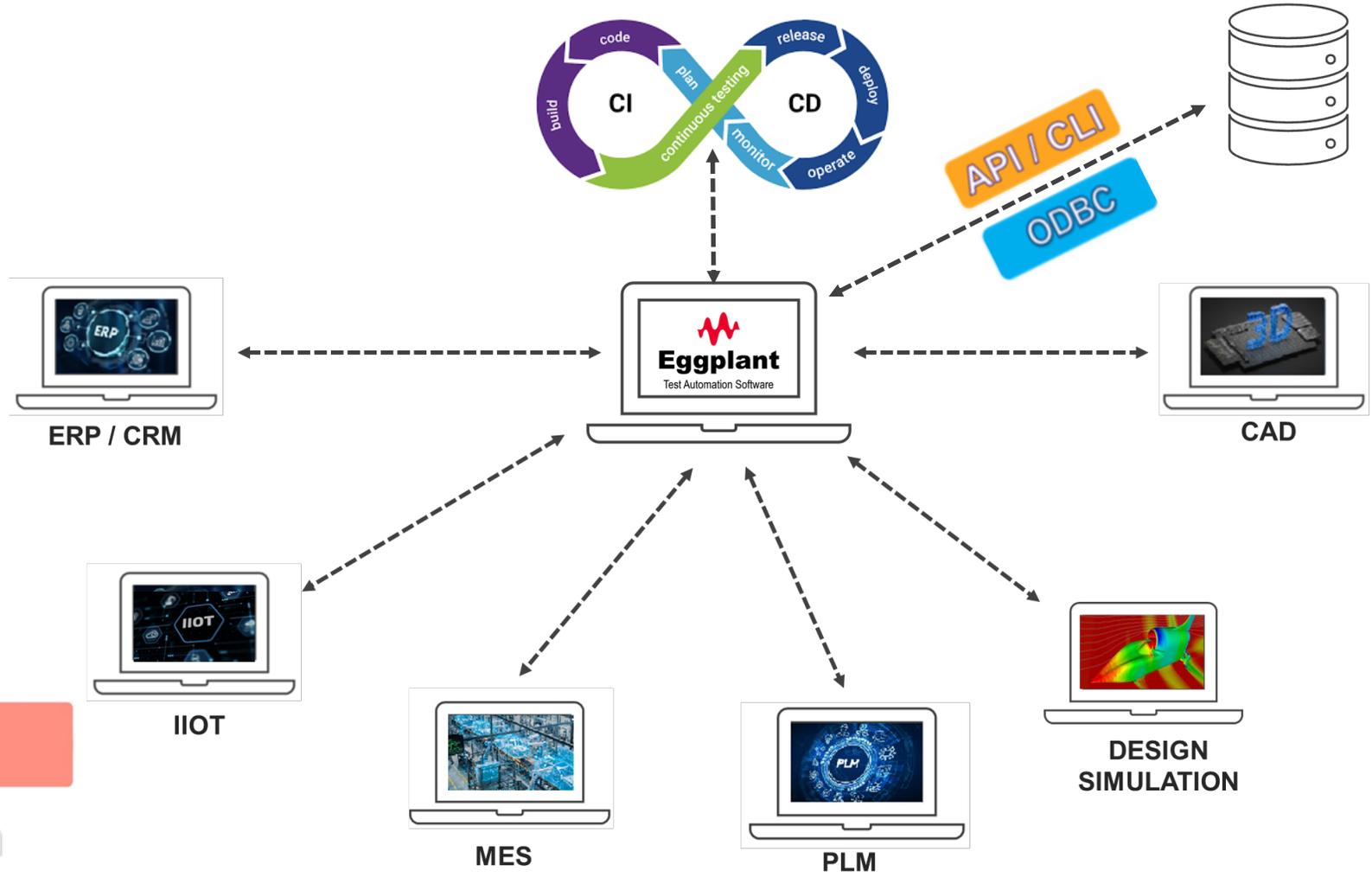




IMAGE RECOGNITION

OCR

The screenshot displays the Eggplant software interface. On the left, a sidebar shows a list of scripts under the 'chrome' category. The main window shows a test script titled 'DEMO.suite - chrome' with an 'Output' pane at the bottom. The output log contains the following text:

```
14/12/2021 11:40:24 START      Running chrome.script
14/12/2021 11:40:25 doubleclick chrome at (350, 830)
14/12/2021 11:40:28 EndTestCase (Duration:3.785198", Errors:"0",
Exceptions:"0", StartTime:"2021-12-14 11:40:24 +0100", Successes:"1",
TestCase:"chrome.script", Warnings:"0")
14/12/2021 11:40:28 SUCCESS      Execution Time 0:00:03 chrome.script
```

On the right side of the interface, a 'Windows\_10 (Capture Mode)' window shows a screenshot of a Windows 10 desktop environment. The desktop background is blue with the Windows logo. Various icons are visible on the desktop, including 'Recycle Bin', 'This PC', and several application icons. The taskbar at the bottom shows the search bar and system tray with the time 8:11 PM and date 12/13/2021.



IMAGE RECOGNITION

OCR



IMAGE RECOGNITION

OCR

The screenshot shows the Eggplant software interface. At the top, the menu bar includes 'Eggplant', 'File', 'Edit', 'Run', 'Connection', 'Control', 'Window', and 'Help'. The main window title is 'Starter.suite - TC001'. Below the menu, there's a search bar and a toolbar with various icons. The central area is divided into 'Scripts' and 'Results' sections. The 'Scripts' section shows a list of scripts, and the 'Results' section shows the execution log. The log contains the following text:

```
23/06/2023 12:23:20 click google logo at (197, 361)
23/06/2023 12:23:22 click (TEXT:"recherche") at (611, 2113)
23/06/2023 12:23:29 click destination at (90, 845)
23/06/2023 12:23:30 scrollwheeldown moved 5
23/06/2023 12:23:30 EndTestCase (Duration:"10.456652", Errors:"0",
Exceptions:"0", StartTime:"2023-06-23 12:23:19 +0200", Successes:"1",
TestCase:"TC001.script", Warnings:"0")
23/06/2023 12:23:30 SUCCESS Execution Time 0:00:10 TC001.script
```

The screenshot shows an iPhone home screen. At the top, the status bar displays the time '12:24', signal strength, Wi-Fi, and battery level '100'. The home screen features several app icons: Google Maps, WhatsApp, Facebook, and a dock at the bottom with a compass, a cube, and a Teams icon with a notification badge showing '15'. A search bar at the bottom is labeled 'Recherche'. The background is a dark purple gradient.



## Computer vision: Language Naturel, Low Code

- Click, Double Click, Scroll Up, Scroll Down, TypeText, Drag, Drop, Wait for, Swipe, Readtext
- Enregistrement et Auto Complétion pour faciliter le Scripting et pour réduire le temps de maintenance
- Regex / Pattern pour validation et recherche de texte
- Générer automatiquement des données de test

```

// Define the Salesforce page URL for the desired account
set url to "https://eggplant.lightning.force.com/lightning/r/Account/001Ht00002hLegflAC/view"

// Open the Run dialog and execute Chrome to load the Salesforce URL
TypeText windowsKey, r
wait 0.5
TypeText "chrome " & url, returnkey
wait 5

// Navigate to the Opportunities section and start creating a new Opportunity
Click "Opportunities"
Click text:"New"

// Fill out the Opportunity details
Click "OppName"
TypeText "Eggplant Keysight Salesforce TNR"
Click "CloseDate"
TypeText "29/02/2024"
Click "Stage"
Click "Stage1"
Click "EndUserContact"
Click "AlexandreLegrand"
TypeText pageDown
Click "DealValueACV"
TypeText 10000
Click "Usecase"
Click "CRM"
Click "DescriptionofUseCase"
TypeText "Test Non Regression"
Click "DescriptionofValueProposition"
TypeText "Computer Vision"
TypeText pageDown
Click "Howwillthisbepaid"
Click "Upfront"
Click "Humanbased"
Click "add"
Click "Nocompetitor"
Click "add"
Click "Save"

// Navigate to a specific Salesforce template for further actions
Click imageName:"SalesforceTNR", waitFor:20
WaitFor 10, "Playbook"
wait 3
Click "Playbook"
Click (Image:"Create", WaitFor:5.7)
Click "EggPlantNewBusiness"

```



# Soirée du test logiciel

## Création et gestion d'une opportunité sur Salesforce

Conférence

The image shows a screenshot of the Eggplant test suite execution environment. The main window displays the script for 'TC002' with the following code:

```
Abort Script salesforce page URL for the desired account
set url to "https://eggplant.lightning.force.com/lightning/r/Account/001Ht00002hLegfIAC/view"

// Open the Run dialog and execute Chrome to load the Salesforce URL
TypeText windowsKey, r
wait 0.5
TypeText "chrome " & url, returnkey
wait 5

// Navigate to the Opportunities section and start creating a new Opportunity
Click "Opportunities"
Click text:"New"

// Fill out the Opportunity details
Click "OppName"
TypeText "Eggplant Keysight Salesforce TNR"
Click "CloseDate"
TypeText "29/02/2024"
Click "Stage"
Click "Stage1"
Click "EndUserContact"
Click "AlexandreLegrand"
TypeText pageDown
Click "DealValueACV"
TypeText 10000
Click "UseCase"
Click "CRM"
Click "DescriptionofUseCase"
TypeText "Test Non Regression"
Click "DescriptionofValueProposition"
TypeText "Computer Vision"
TypeText pageDown
Click "Howwillthisbepaid"
Click "Upfront"
Click "Humanbased"
Click "add"
Click "Noocompetitor"
Click "add"
```

The 'Output' window shows the following log:

```
18/10/2023 13:21:15 START Running TC002.script
18/10/2023 13:21:15 typetext [windowsKey]r
```

The 'Script Checker' window shows 'Running: QXDAY.suite - TC002.script' and 'No changes'.

The background shows a Windows desktop with a 'Run' dialog box open, containing the URL: `https://eggplant.lightning/r/Account/001Ht00002hLegfIAC/view`. The system tray shows the date and time as 11:21 AM on 10/18/2023.



The screenshot displays the Eggplant software interface. The top window, titled "Salesforce\_Demo.suite - MFA", shows a test script with the following steps:

```
connect "Windows_10"  
TypeText windowsKey.r  
TypeText "https://eggplant--  
marktest.sandbox.my.salesforce.com/", returnKey  
WaitFor 50.0, "salesforceLogo"  
WaitFor 50.0, "Username"  
  
TypeText "anthony.bianay@keysight.com.marktest"  
Click (Image:"Password", WaitFor:10)  
log EncodeText("Dounabichon971!")  
TypeEncodedText "01TZUFgm_Z@=4"  
DoubleClick (Image:"LoginToSandbox", WaitFor:10)  
connect "Android"  
wait 5  
Click (Image:"APPROUVER", WaitFor:10)  
connect "Windows_10"
```

The bottom window, titled "Running MFA.script", shows the same script with execution logs:

```
06/10/2022 13:17:04 START Running MFA.script  
06/10/2022 13:17:04 connect Windows_10:(null)  
06/10/2022 13:17:04 typetext [windowsKey.r]  
06/10/2022 13:17:06 typetext https://eggplant--  
marktest.sandbox.my.salesforce.com/{returnKey}
```

The right side of the interface shows a remote desktop view of a Windows 10 desktop with a blue background and the Start menu icon. The bottom right corner shows an Android virtual device with icons for "Miomroman...", "Google Pla...", "Authentica...", and "Investing".



The image displays two side-by-side screenshots of software testing environments. The left screenshot shows the SAP Test Suite interface with a script editor containing the following code:

```
(  
  sapDir:"C:\Program Files (x86)\SAP\FrontEnd\SAPGUI\saplogon.exe",  
  workspace:"SAP TEST ENV",  
  username:"STUDENT080",  
  password:"testing123",  
  roomReservationTXN:"pp30",  
  agricultureContractTXN:"wb23"  
)  
  
"SAP/gui".launchSAP ("C:\Program Files (x86)\SAP\FrontEnd\SAPGUI\saplogon.exe")  
"SAP/gui".openWorkspace ("SAP TEST ENV")  
"SAP/gui".login ("STUDENT080"),("testing123")  
  
"SAP/toolbar".command ("pp30")  
"SAP/dataEntry".textBoxRange ("Date"),("03/21/2023"),("03/21/2023")  
"SAP/dataEntry".textBoxRange ("Time"),("16:00"),("16:30")  
  
"SAP/forms".toolbar ("Available rooms")  
  
"SAP/reports".check ("SAP/reports".extract ),("07-1400")  
"SAP/reports".selectData ("07-1400")  
  
"SAP/toolbar".cancel  
"SAP/toolbar".cancel  
"SAP/toolbar".cancel  
  
"SAP/toolbar".command ("wb23")  
  
"SAP/forms".toolbar ("Trading Contracts")  
"SAP/forms".execute  
"SAP/tables".extract  
  
"SAP/toolbar".cancel  
"SAP/gui".popups ("Yes")  
"SAP/toolbar".cancel  
"SAP/toolbar".cancel  
  
"SAP/toolbar".logoff  
  
"SAP/gui".closeSAP
```

The right screenshot shows the SAUCELABS interface with a Windows desktop environment. The bottom panel displays the test results for the selected script snippet:

```
Done 1: Selection of 01.script in Scripts  
"SAP/gui".closeSAP  
  
21/03/2023, 15:45:58 START Running Selection from Testcases/01.script  
21/03/2023, 15:45:58 typetest [windowsAllKey][F4]  
Selection Executed in 0:00:00
```



# Soirée du Automatisation sur une plateforme CAO/PLM test logiciel

Conférence

The screenshot displays the Eggplant test automation interface. On the left, a script editor shows a sequence of actions for a test case named 'Log in'. The actions include: StartMovie 'CAD Creation', BeginTestCase 'Open Team Center', DoubleClick (Image:'Image0002', WaitFor:20), EndTestCase 'Open Team Center', BeginTestCase 'Log in', Click (Image:'JAccett', WaitFor:500), Click (Image:'relappmariulieEsegui', WaitFor:50), wait 5, TypeText 'V08056B', Click (Image:'Password', WaitFor:50), TypeText 'xSQ6fHd6Zm8m2812!', Click (Image:'Signin', WaitFor:50), EndTestCase 'Log in', BeginTestCase 'Search Part', WaitFor 50, 'TEAMCENTER', wait 5, and Click (Image:'TEAMCENTER', WaitFor:50). Below the script, an output window shows a log of execution steps with timestamps and coordinates.

The main window shows a browser window titled 'Running Ivecosuite - TC001.script -- 160.220.142.12 \*'. The browser displays the Teamcenter login page with a 'Log in' button. A security warning dialog is visible over the page, stating: 'TEAMCENTER. This window allows Teamcenter to share your login information with other Teamcenter products. Please leave this window open. If you logout from this window, Teamcenter will ask you to login again if another Teamcenter product is opened. Check with your site administrator regarding any additional security measures.' The browser address bar shows 'https://160.220.142.12:8443/LoginServiceADAM/weblogin/home'. The system tray at the bottom shows the time as 4:29 PM on 4/26/2023.



# Soirée du Localisation des stations et du déplacement du train test logiciel

Conférence

The screenshot shows the prorail.suite interface with a script editor on the left and a console window at the bottom. The script editor contains the following code:

```
put "2B88" into trainNumber
-- Look for all station
put EveryImageLocation("Station") into Stations
Log Stations
put [] into Mapped
-- Match the name of all stations with the location
repeat with each Station in Stations
  put functions.findStationName(Station) into tmp
  MoveTo Station
  insert [[Station, tmp]] after Mapped
end repeat
Log Mapped
-- Find the Train location
CaptureScreen
put ImageLocation(text:trainNumber) into train
put 0 into shortest
repeat with each loca in Mapped
  put the first item of loca into tmp
  put functions.distance(train,tmp) into tmpDistance
  If tmpDistance < shortest or shortest = 0 then
    put tmpDistance into shortest
    put the first item of loca into shortestLocation
    put the second item of loca into shortestName
  End If
end repeat
Log "The Train " & trainNumber & " is at station " & shortestName && shortestLocation
```

The console window shows the following output:

```
08/02/2022, 09:48:20 START Running LiveRailwaymap-fullmapping.script
```

The screenshot shows the OpenTrainTimes website displaying a railway map for the route "Scotland: Carlisle (exc.) to Motherwell". The map shows several tracks with signal numbers and train numbers. A train with the number 2B88 is highlighted in green, and another train with the number 2F17 is highlighted in black. The map also shows various signals and berths. The website interface includes a search bar, a navigation menu with "TRAINS" and "MAPS" buttons, and a "Connected" status indicator. The bottom of the screen shows a Windows taskbar with the time 9:48 AM on 2/8/2022 and the temperature 10°C Cloudy.



The screenshot displays the IVI System.suite software interface. The top window, titled "IVI System.suite - IVI Demo", contains a script editor with the following code:

```
//Set Online News Radio
Click "News_icon"
Click text:"Reuters TV"
waitFor 60, Image:"NowPlaying"

//Move to Settings
Click Image:"Home"
wait 2
SwipeLeft [830,350]
Click text:"General Settings"

//Set Sound Navigation
Click "Sound"
Click the third item of EveryImageLocation("IncreaseSound")

//Open Navigation App
Click "Navigation"

//Navigate to Closest Petrol Station
Click "Petrol Station"
Click text:"Valero", waitFor: 60
Click Image:"AStart"
waitFor 60, Image:"alternativeRoutes"
```

The interface also shows a "Scripts" panel on the left with "IVI Demo" selected, an "Images" panel listing various PNG files, and a "Results" panel. At the bottom of the script editor, an "Output" window displays a warning: "Command wait is Discouraged. Hard waits are rarely needed: use waitFor instead".

Below the software interface is a simulated IVI system screen. The screen shows a home screen with a dock of icons: Home, Back, Google Assistant, Maps, FM, and Press & Hold to Add. The main area contains icons for Maps, Phone, FM, Play Store, Google Assistant, Display Mode, All Apps, and News. The top right corner shows the user "Owner" and the time "12:22".

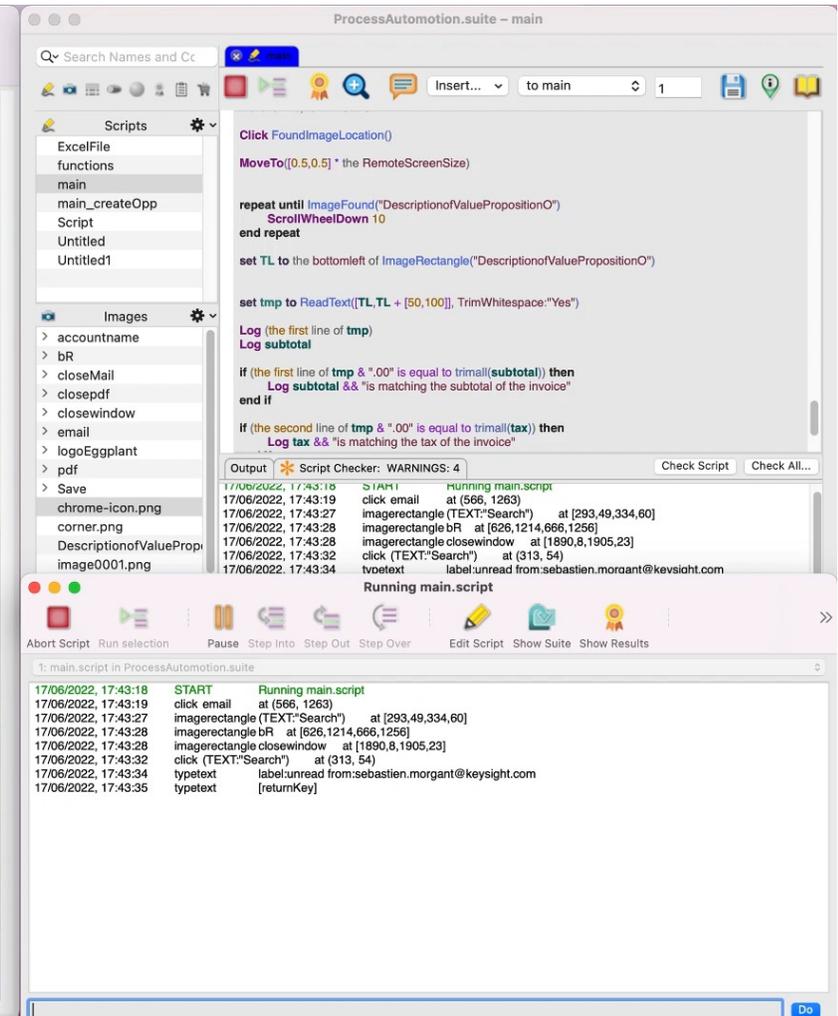
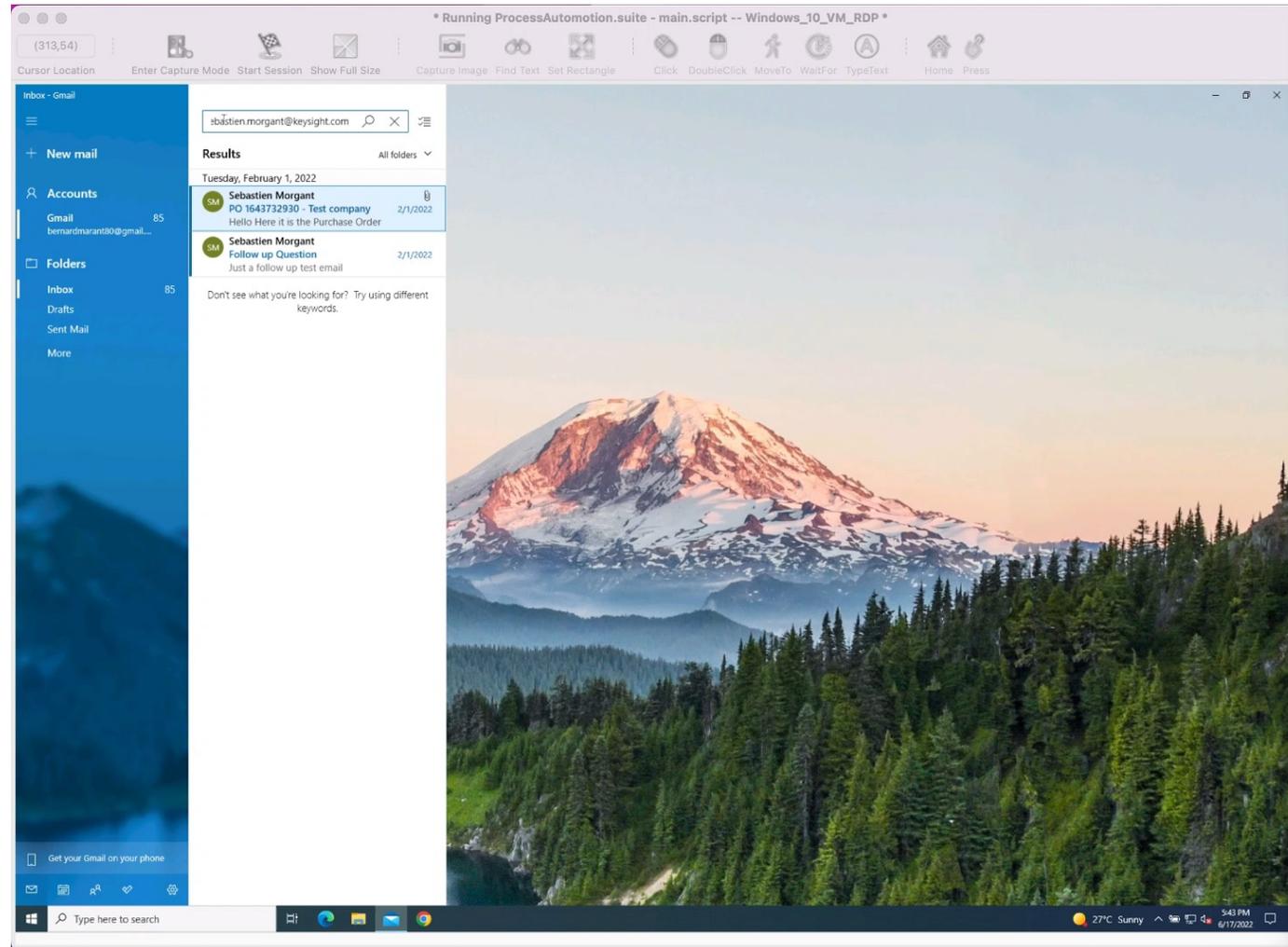




The screenshot shows the Eggplant software interface. On the left is a navigation sidebar with options like Dashboards, Designer, Models, Test Cases, Suites, Snippets, Capture, User Journeys, Live Run, Controller, Runner, Test Results, Test Config, Schedule, SUTs, Environments, and Insights. The main area displays a test execution flowchart with steps: Initial (Start simulation), Aircraft on ground (Configure aircraft, Pre-flight check, Check aircraft status, Takeoff), and Aircraft airborn (Fly aircraft, Land aircraft, Turn autopilot off/on, Increase/Decrease throttle, Check aircraft status/heading, End simulation). A console log at the bottom shows execution details for 9/9/23 at 5:15 PM, including actions like 'set SEARCHRECTANGLE', 'typetext [escape]', and 'waitfor (TEXT: "READY TO FLY") found at (1233, 817)'. The status bar at the top indicates 'In Progress' and 'Start Time: Sep 9, 2023, 5:15 PM - 0h 1m 6s'.

The screenshot shows a first-person view from the cockpit of a Microsoft Flight Simulator. The view is through the windshield, showing a runway and a bright sky. The instrument panel is visible, with various gauges and screens. The text 'Microsoft Flight Simulator - 1332.816' is visible in the top right corner of the window.

**KEYSIGHT**  
Eggplant Software controls, verifies and validates aircraft in-flight simulation

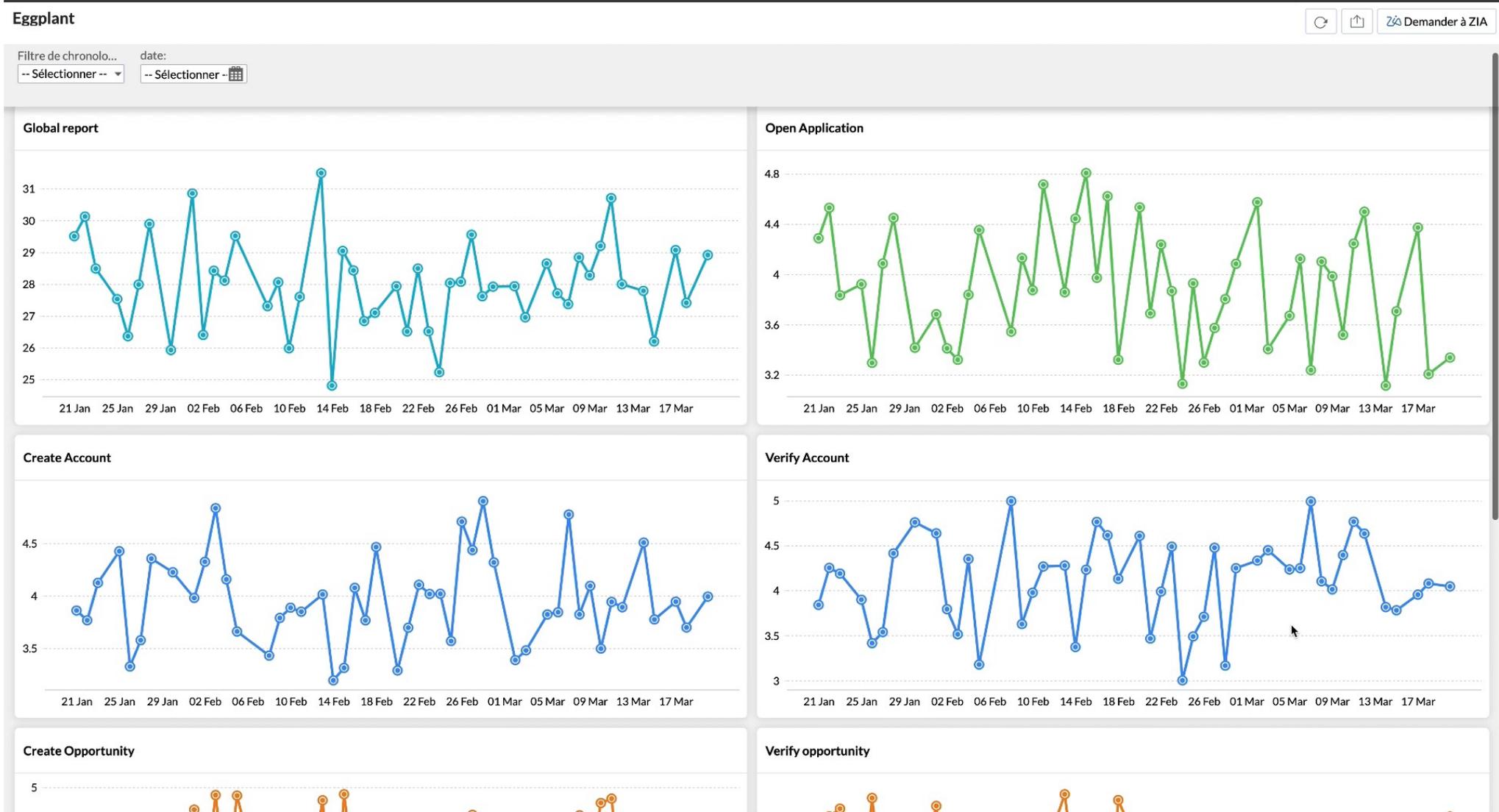




The screenshot displays the KeySight PDF-Compare tool interface. The main window shows a Windows desktop environment with a blue background and a taskbar at the bottom. The desktop contains icons for Recycle Bin, Google Chrome, EC2 Feedback, EC2 Micros..., and Keysight PXI Record an... The taskbar shows the search bar and system tray with the time 8:53 PM and date 11/3/2023. The PDF-Compare tool window is open on the right, showing a script editor with the following code:

```
DEMO_QXDAY_Suite.suite - PDF-Compare
Search Names a
PDF-Compare
Scripts
common
PDF-Compare
//files to compare
set file1 to "C:/Users/Administrator/Downloads/pdf-1.pdf"
set file2 to "C:/Users/Administrator/Downloads/pdf-2.pdf"
//Open template
common.openFile file1
repeat 13 times
  compareScreen the repeatIndex, rectangle:[550,136,1333,1154]
  TypeText pageDown
  wait 1
end repeat
answer "Template Captured Start Comparison ?" with "Yes" or "No"
If it is "No" then Exit All
TypeText altKey, f4
//Open file to compare
common.openFile file2
repeat 13 times
  compareScreen the repeatIndex, rectangle:[550,136,1333,1154]
  TypeText pageDown
  wait 1
end repeat
```





🔄 📄 📄 Demander à ZIA

Filtre de chrono... date:  
-- Sélectionner -- -- Sélectionner --



# Soirée du test logiciel Intégration CI/CD

Conférence

The screenshot shows the Jenkins web interface for a pipeline named 'Eggplant\_Tests\_Pipeline'. The left sidebar contains navigation options like 'Status', 'Changes', 'Build Now', 'Configure', 'Delete Pipeline', 'Full Stage View', 'Rename', 'Pipeline Syntax', and 'Build History'. The main area displays the 'Stage View' for the pipeline, showing a table of stage execution times for recent builds.

**Pipeline Eggplant\_Tests\_Pipeline**

Recent Changes

Stage View

Average stage times:  
(Average full run time: ~54s)

	Declarative: Checkout SCM	Start	Checkout	Run Tests	Build
#20 Dec 02 11:32 No Changes	3s	106ms	2s	36s	3s
#19 Dec 02 11:23 No Changes	3s	89ms	2s	47s	2s
#18 Dec 02 11:18 No Changes	3s	125ms	2s	47s	3s
#17 Dec 02 10:52 No Changes	3s	94ms	2s	32s	3s

7ème édition de la  
Soirée du  
Test Logiciel

Sophia  
Antipolis



17 octobre 2024  
17h à 22h30



Polytech Nice  
Sophia à Biot



Soirée du  
test logiciel

Sophia Antipolis

SCAN ME



**Merci de  
votre écoute !**

Votre avis nous intéresse