Alyvix
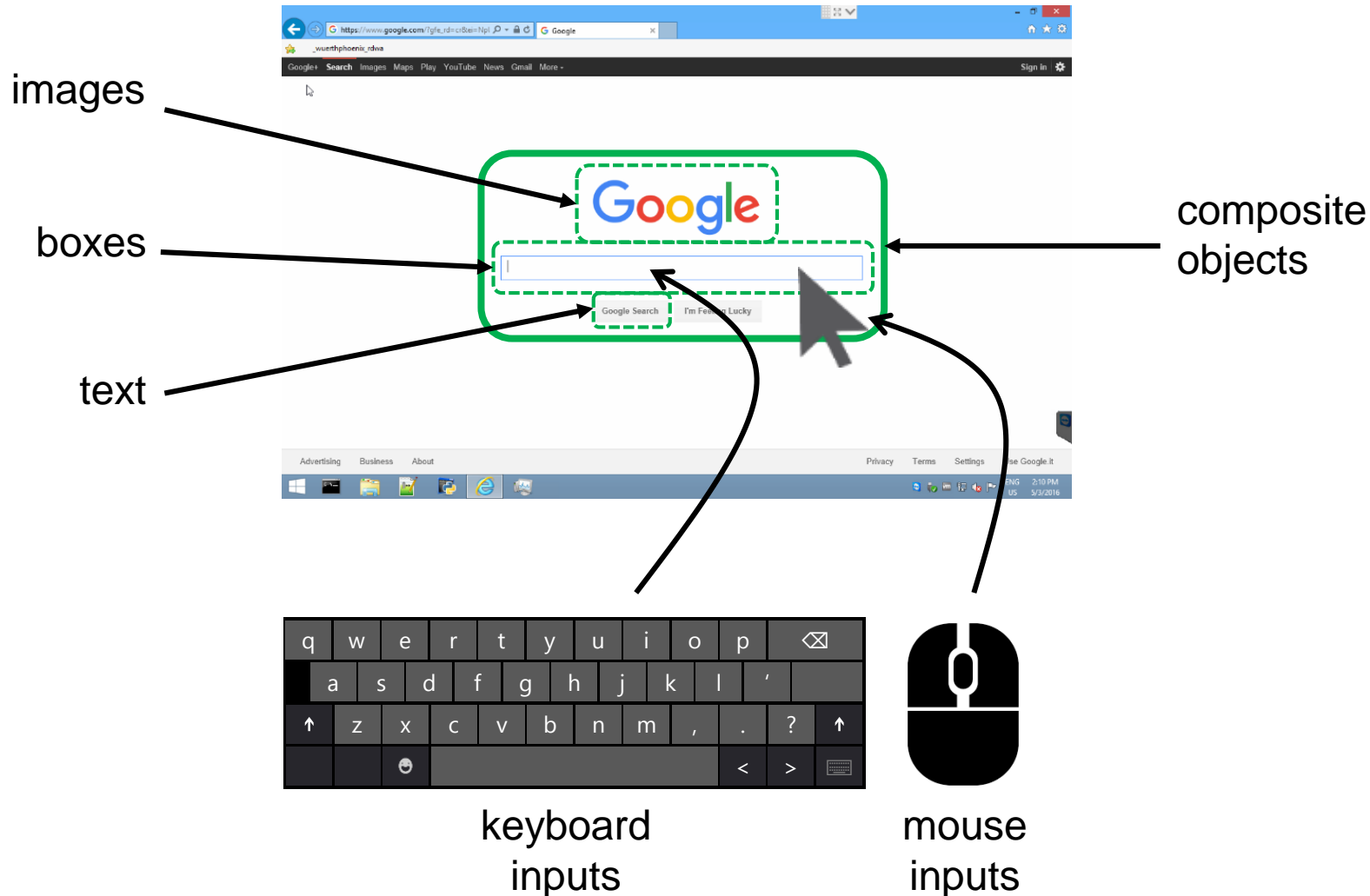## Synthetic monitoring
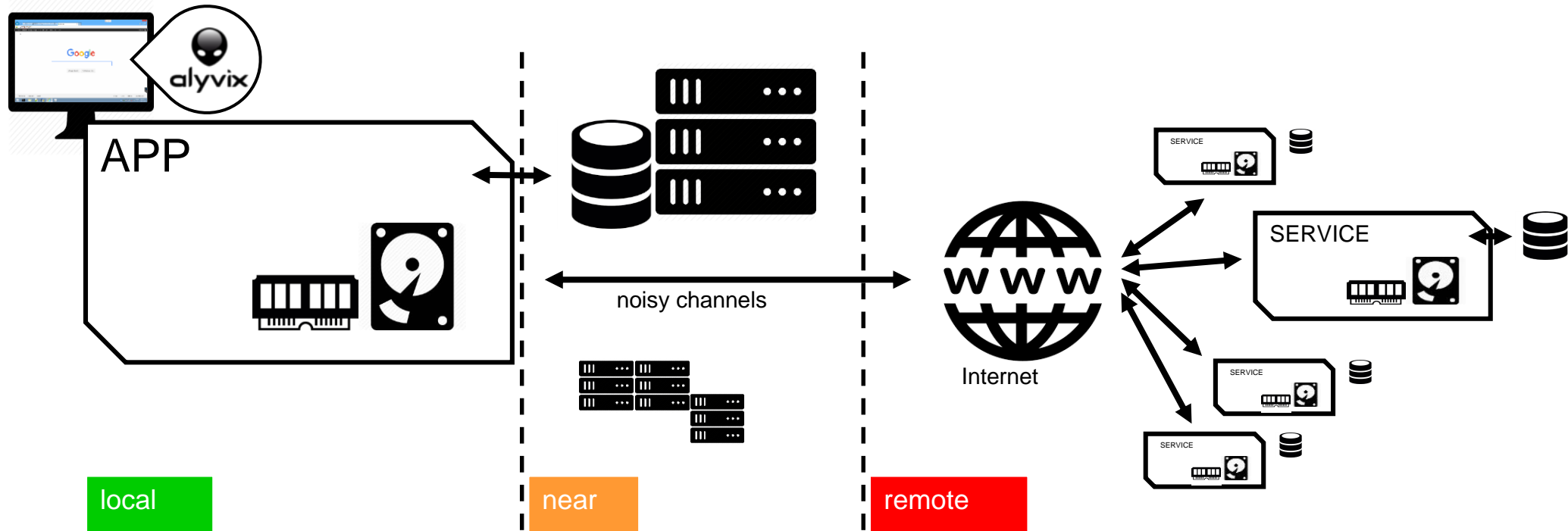
- Alyvix monitors business-critical application performances from the end user point of view.
- Application latencies are due to software quality, machine hardware and telecommunication channels.
- A synthetic monitoring system enables to improve the quality of service.

WÜRTHPHOENIX

images

boxes

text

composite objects

keyboard inputs

mouse inputs

You can **synthetize transactions** with Alyvix:

1. Select graphical object to detect

2. Set keyboard and/or mouse interaction (password can be encrypted)

python

OpenCV

Alyvix can run programs **iexplore.exe**

Alyvix **detection** and **interaction** of graphical objects

1. **detects** object
2. takes its **time**
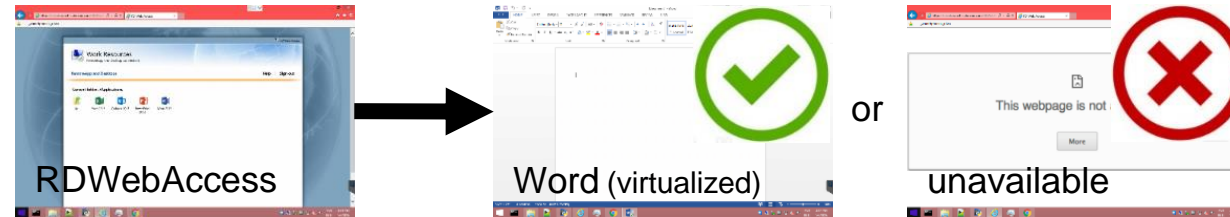3. **interacts** with it

1. **detects** object
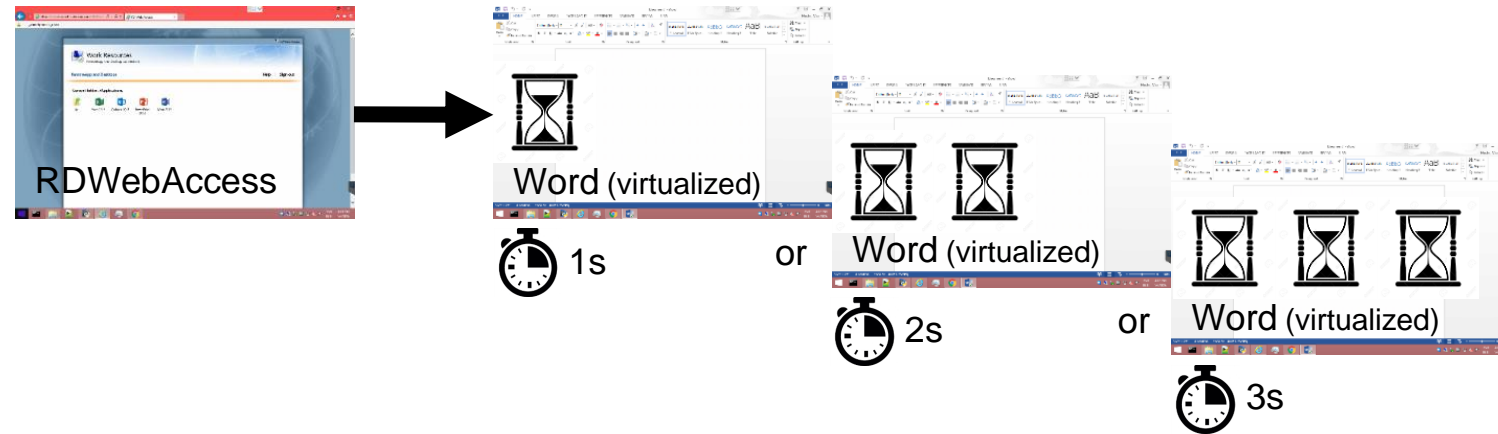2. takes its **time**
3. **interacts** with it

1. Check
AVAILABILITY

RDWebAccess → Word (virtualized) or unavailable

2. Measure
RESPONIVENESS

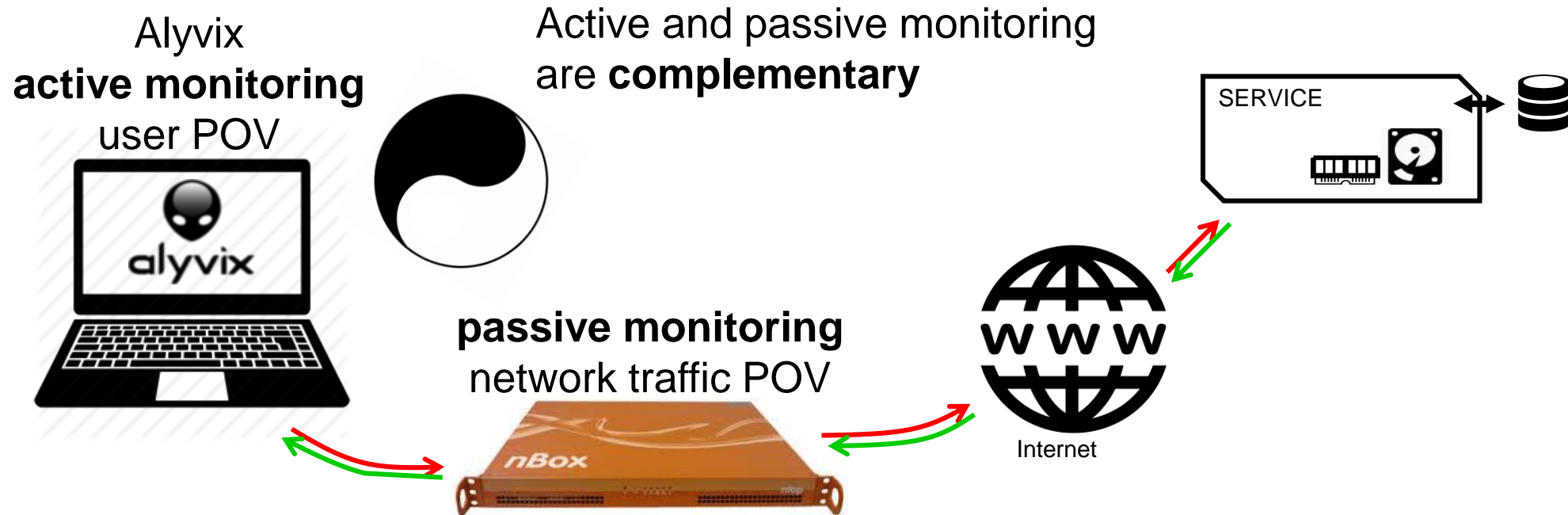RDWebAccess → Word (virtualized) 1s or Word (virtualized) 2s or Word (virtualized) 3s

For all the defined transactions of a given application task, Alyvix is going to:

1. Check the **availability**

2. Measure the **responsiveness**

WÜRTHPHOENIX

Alyvix
active monitoring
user POV

Active and passive monitoring
are **complementary**

SERVICE

passive monitoring
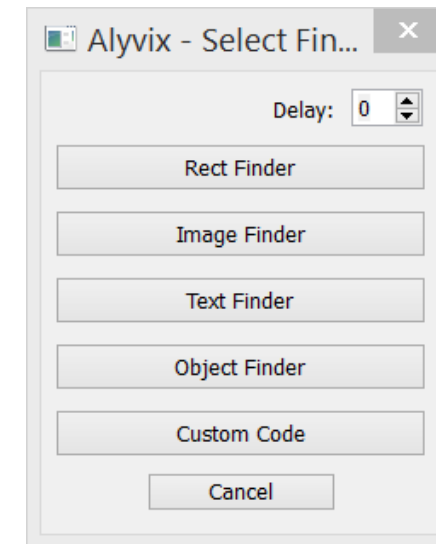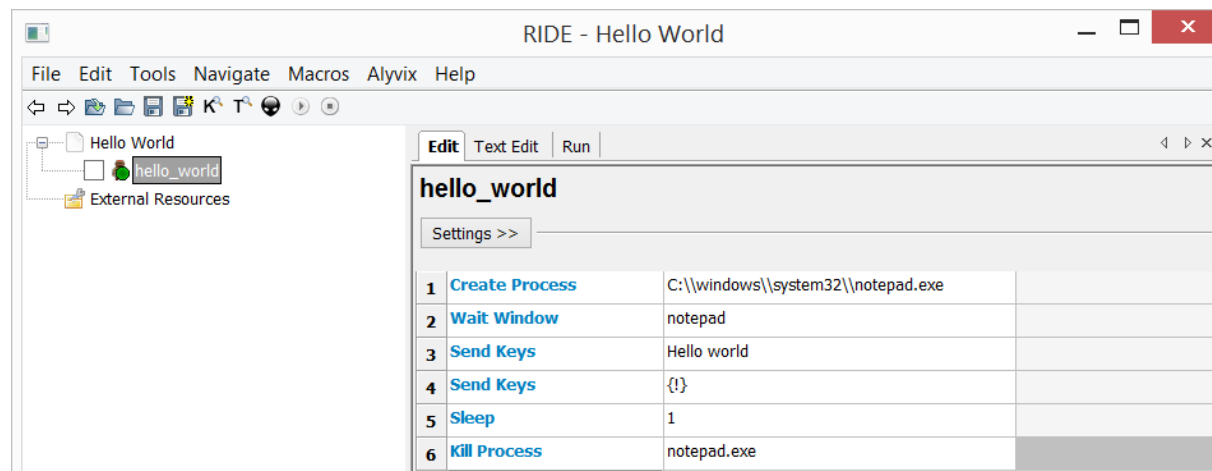network traffic POV

nBox

www

Internet

- Active monitoring takes into account the **user point of view** on the application operating through the web
- Passive monitoring takes into account the **network channel point of view** measuring traffic flow features
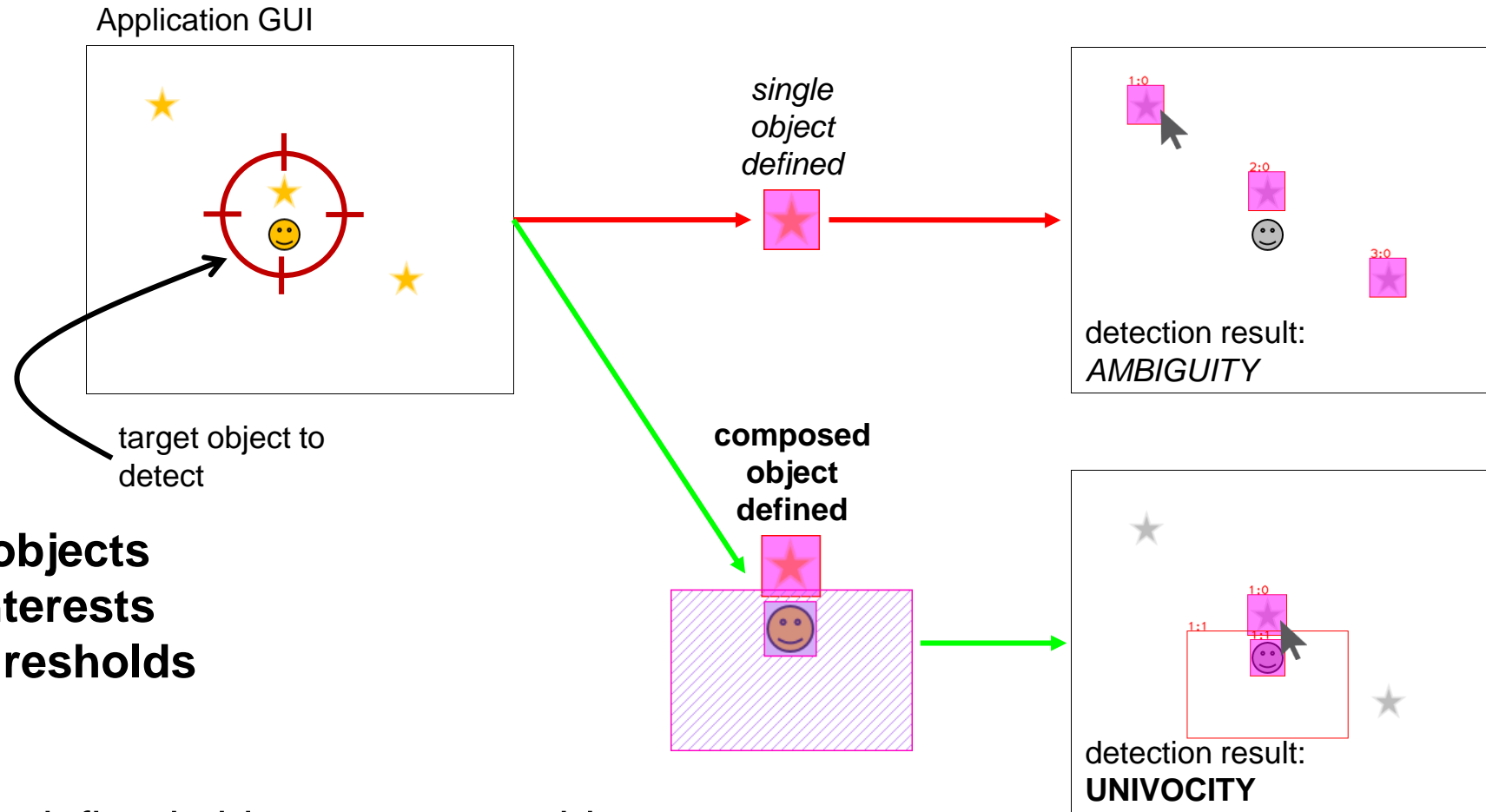
Alyvix GUI
Test case building

easy creation of
transactions and
test cases through
graphical user interfaces

Alyvix - Select Fin...

Delay: 0

Rect Finder

Image Finder

Text Finder

Object Finder

Custom Code

Cancel

RIDE - Hello World

File   Edit   Tools   Navigate   Macros   Alyvix   Help

Hello World
hello_world
External Resources

Edit   Text Edit   Run

hello_world

Settings >>

1	Create Process	C:\\windows\\system32\\notepad.exe	
2	Wait Window	notepad	
3	Send Keys	Hello world	
4	Send Keys	{!}	
5	Sleep	1	
6	Kill Process	notepad.exe	

Application GUI

single object defined

target object to detect

composed object defined

detection result: *AMBIGUITY*
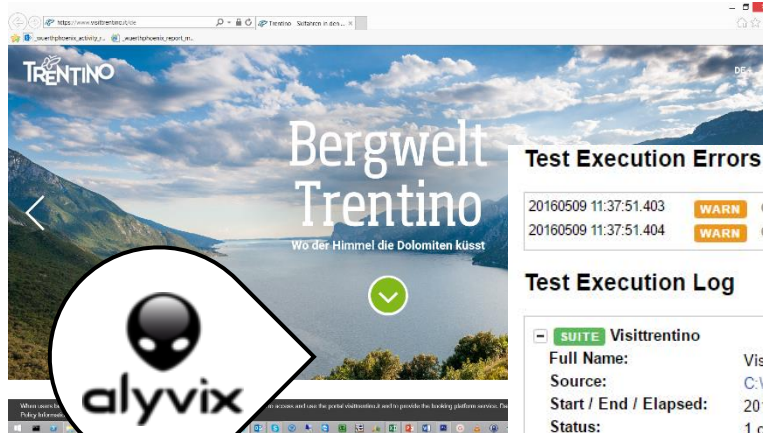
detection result: **UNIVOCITY**

- **Composed objects**
- **Region of interests**
- **Detection thresholds**

give you:

- **Robustness**: defined objects are no ambiguous
- **Flexibility**: defined objects can live everywhere in ROIs
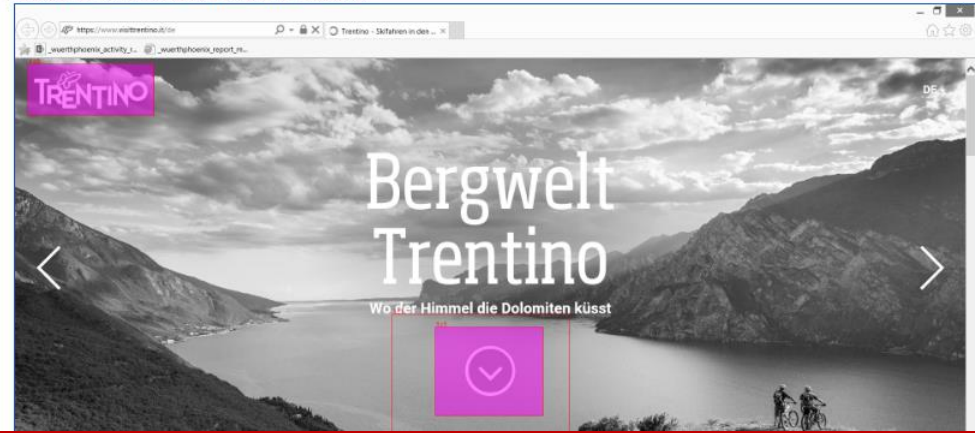
Alyvix reports
Test case output

Alyvix provides **rich HTML reports**, with transaction performances and their screenshots
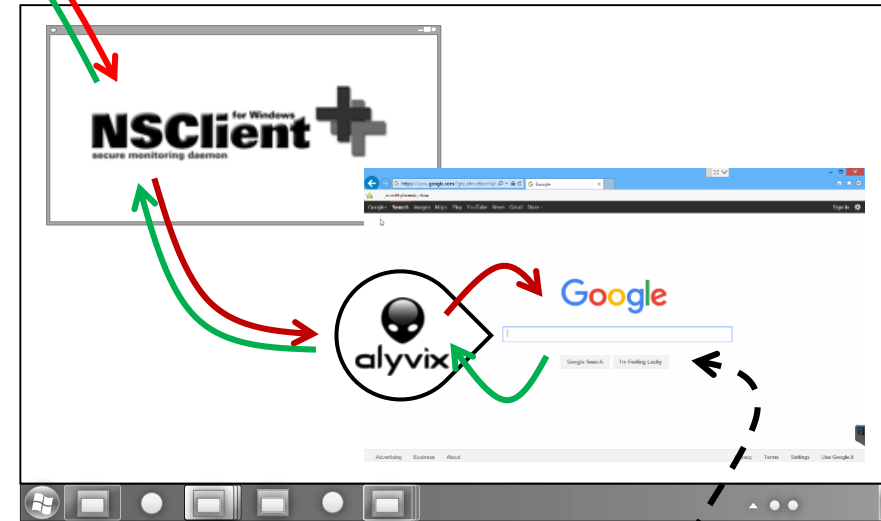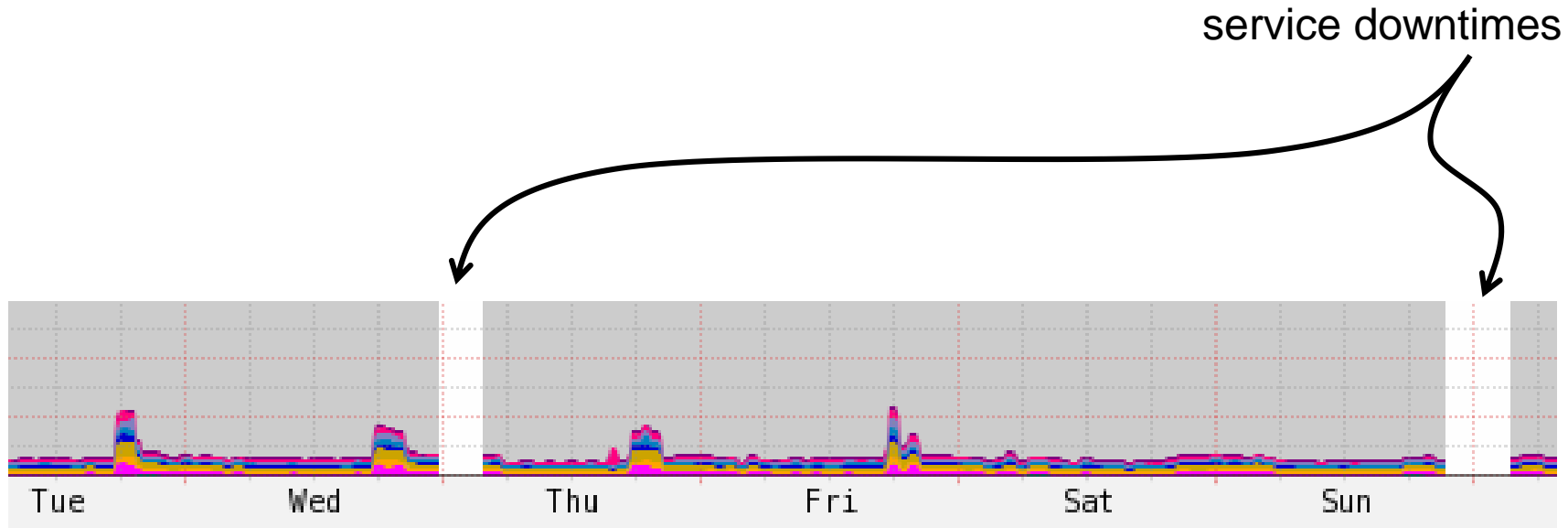
monitoring system

Alyvix probe

application performance
measurements

1. the monitoring system schedules the test cases
2. the probe commands are received by NSClient++
3. NSClient++ runs the Alyvix test cases
4. the performances are collected by the monitoring system

Test case output

service downtimes

latency spikes
low quality of service

**constant end user monitoring
of business-critical applications**

2.2.0
new features
released on May 9, 2016

- improvement of the performance measurement system
- printing rich and intuitive output reports
- more operations with performance measures
- tighter integration in monitoring systems

Thanks for your attention

alyvix

www.alyvix.com

… more than software