



La trasformazione digitale: come ho visto diventare pervasiva la tecnologia in 30 anni di lavoro

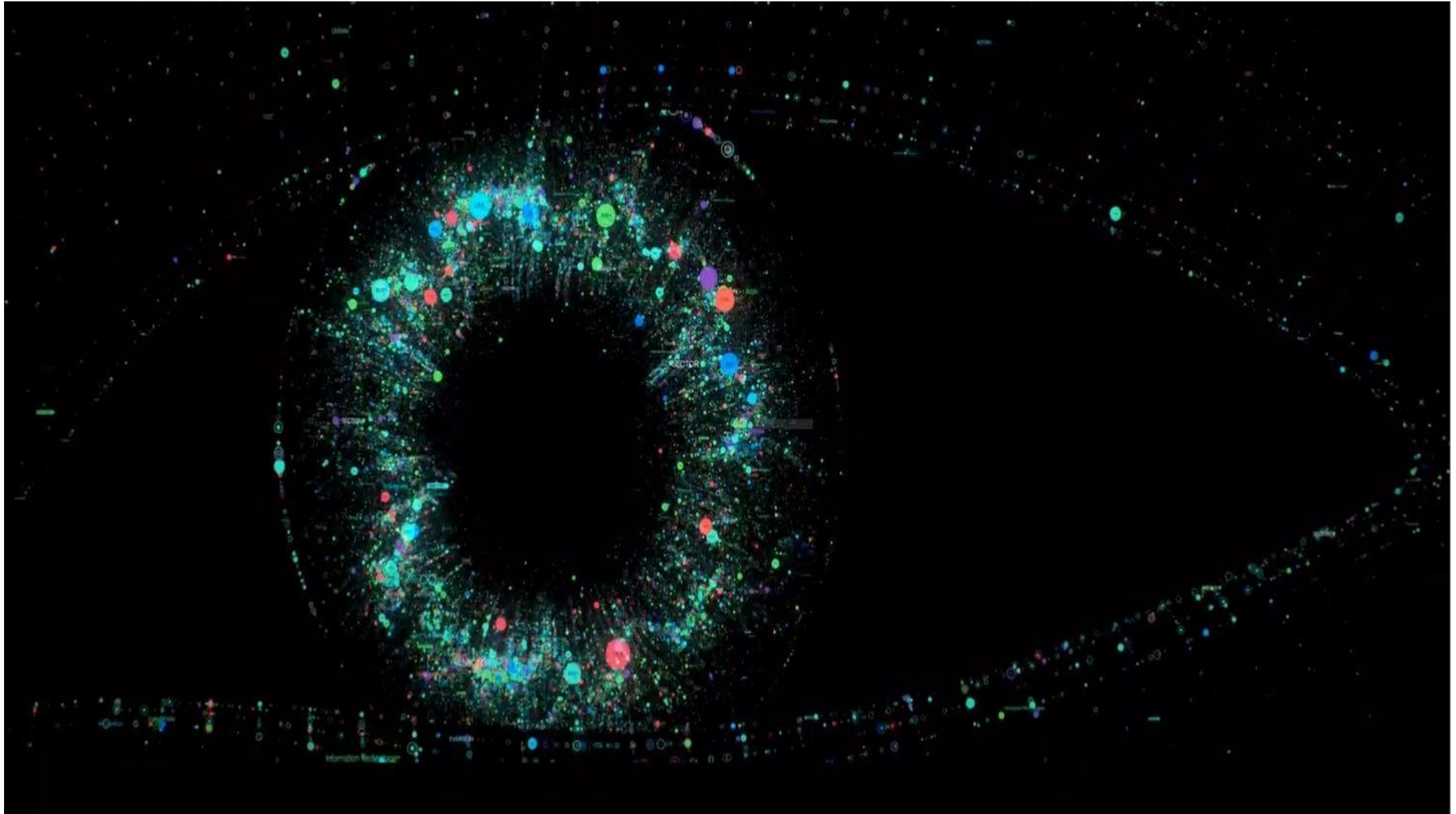
Gabriella Attanasio
Chief Technical Officer, VEM Sistemi
attanasio@vem.com



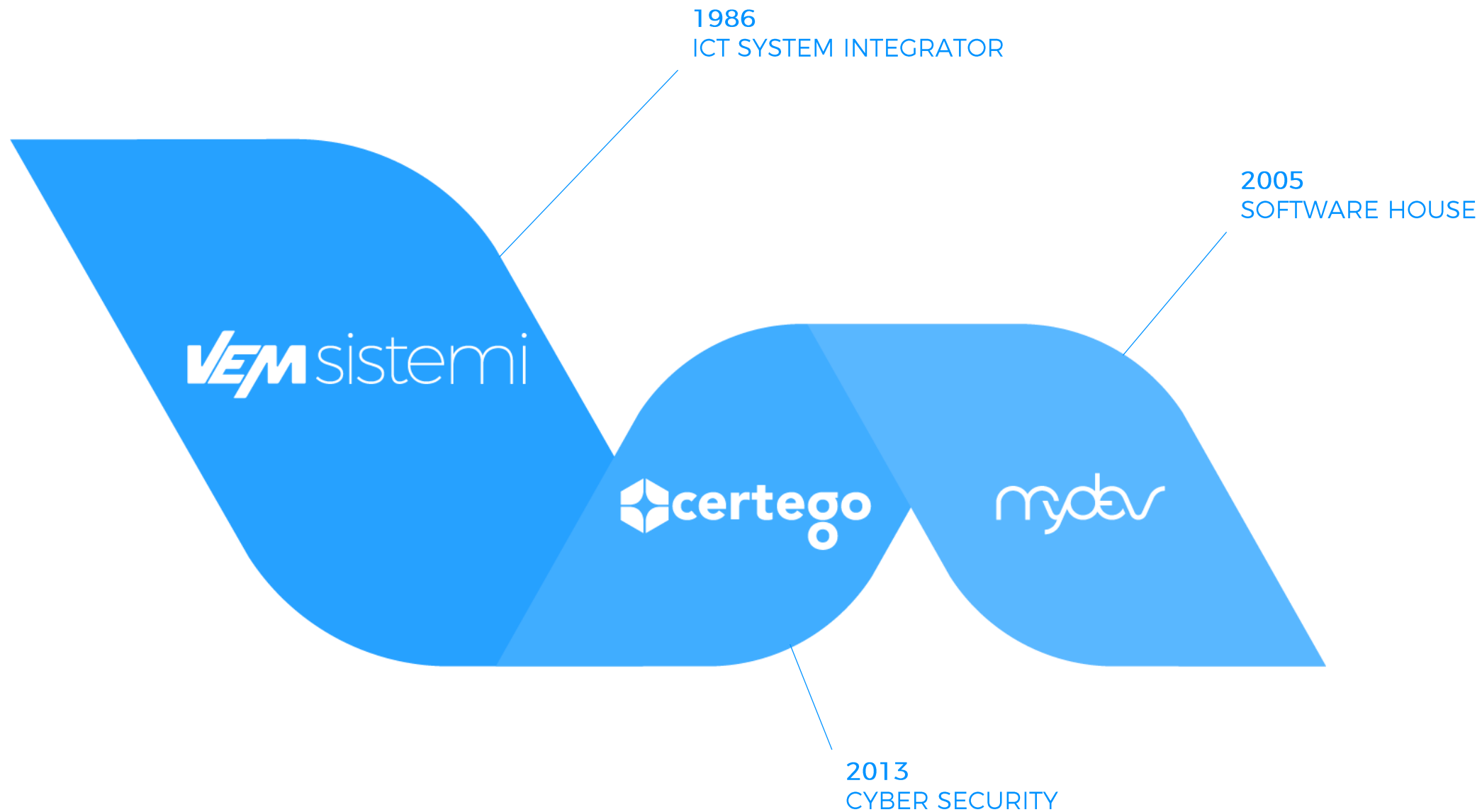


Gabriella
Attanasio





IL GRUPPO VEM



VEM IN NUMBERS

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36
ANNI DI
ESPERIENZA

6
SEDI

RATING MORE
A+



>60
MLN € RICAVI 2020

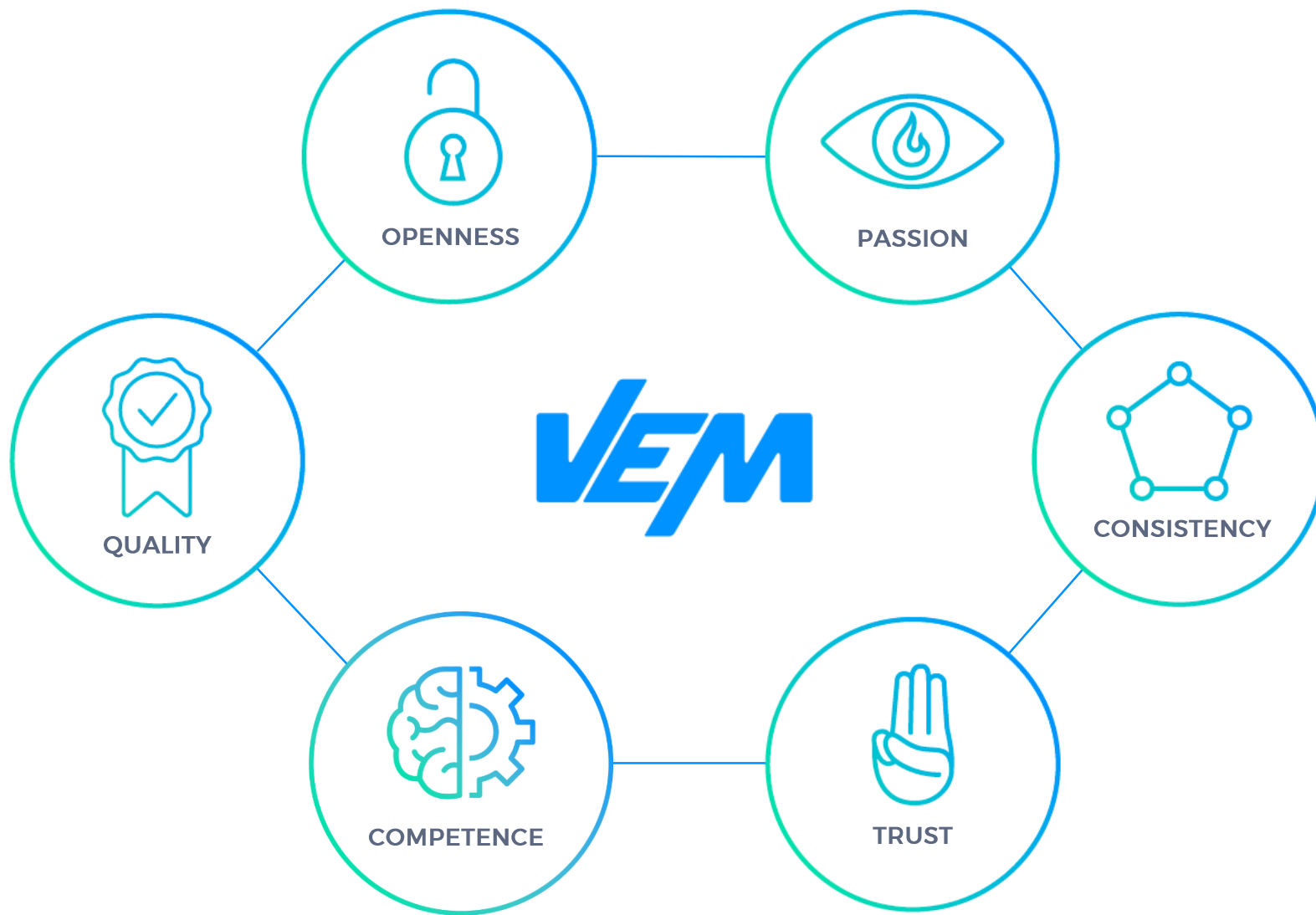
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CLIENTI

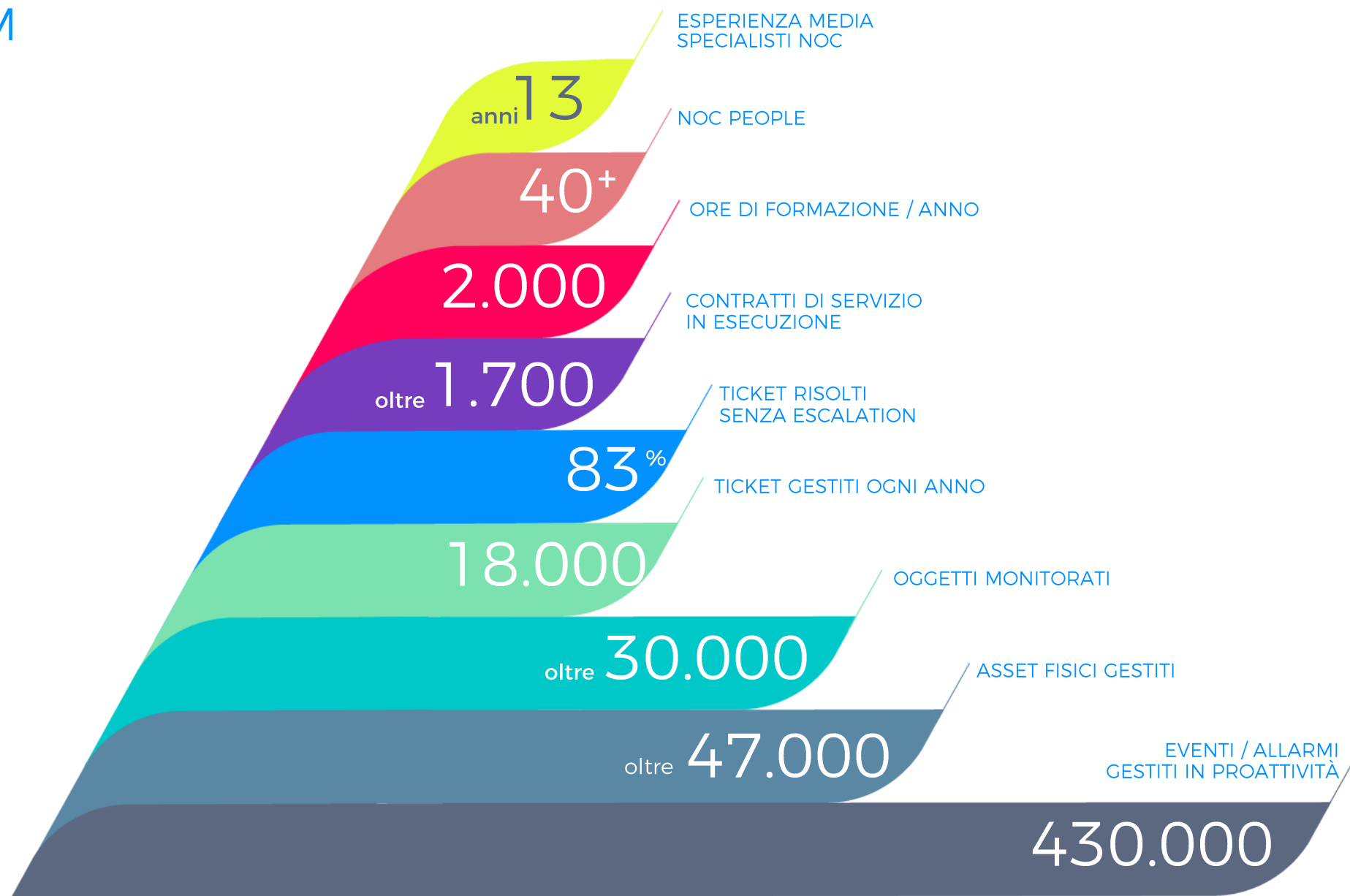
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CERTIFICAZIONI
PERSONALI

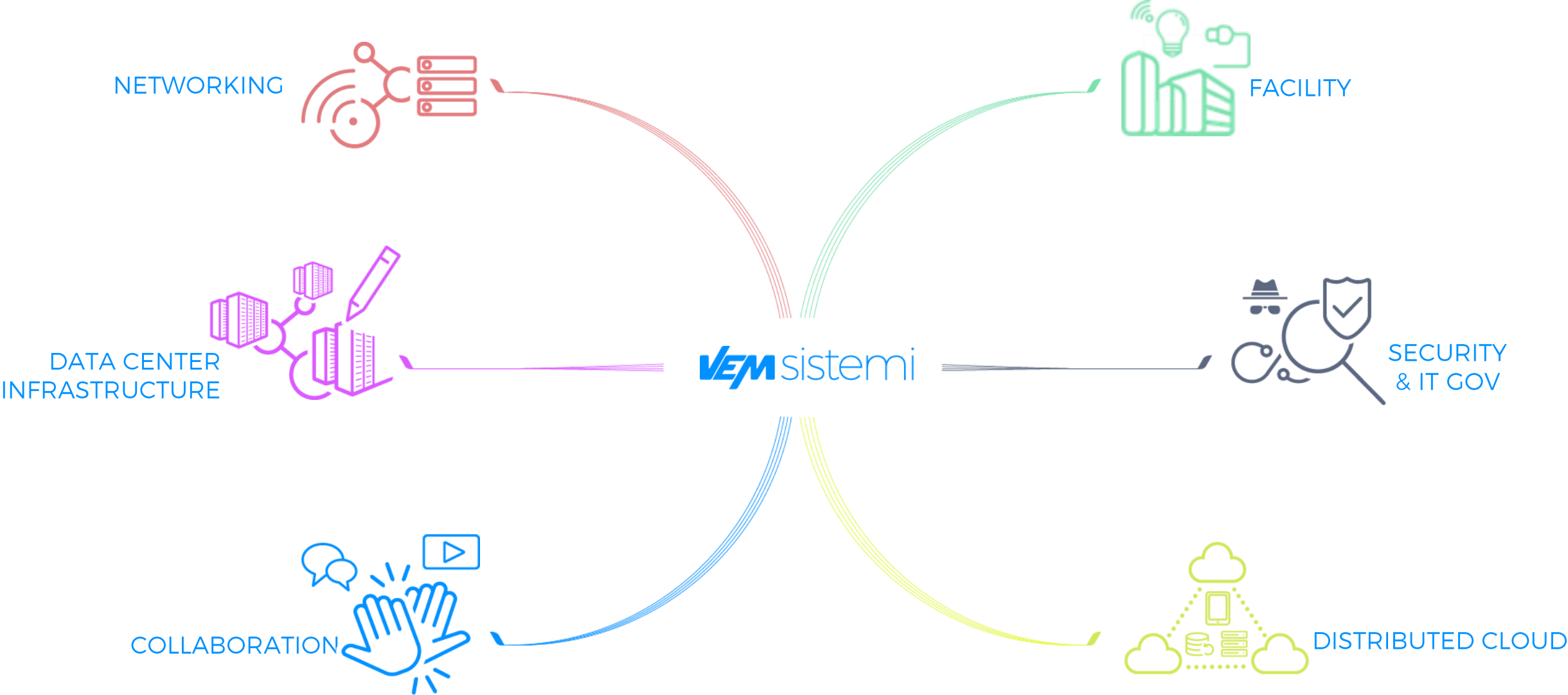
IL VALORE DEL BRAND



I NUMERI DI VEM



TECHNOLOGY ECOSYSTEM





1986/1990 CABLING SYSTEM



1990/2000 IP-PHONE





my|vem



2000/2005 - SAAS



2005/2010 MANAGED SERVICES





 2005/2010 - VIRTUALIZATION



2010/2015 - DATA CENTER



2013 - CERTEGO



2014 – BUILDING AUTOMATION



2015 – MYDEV



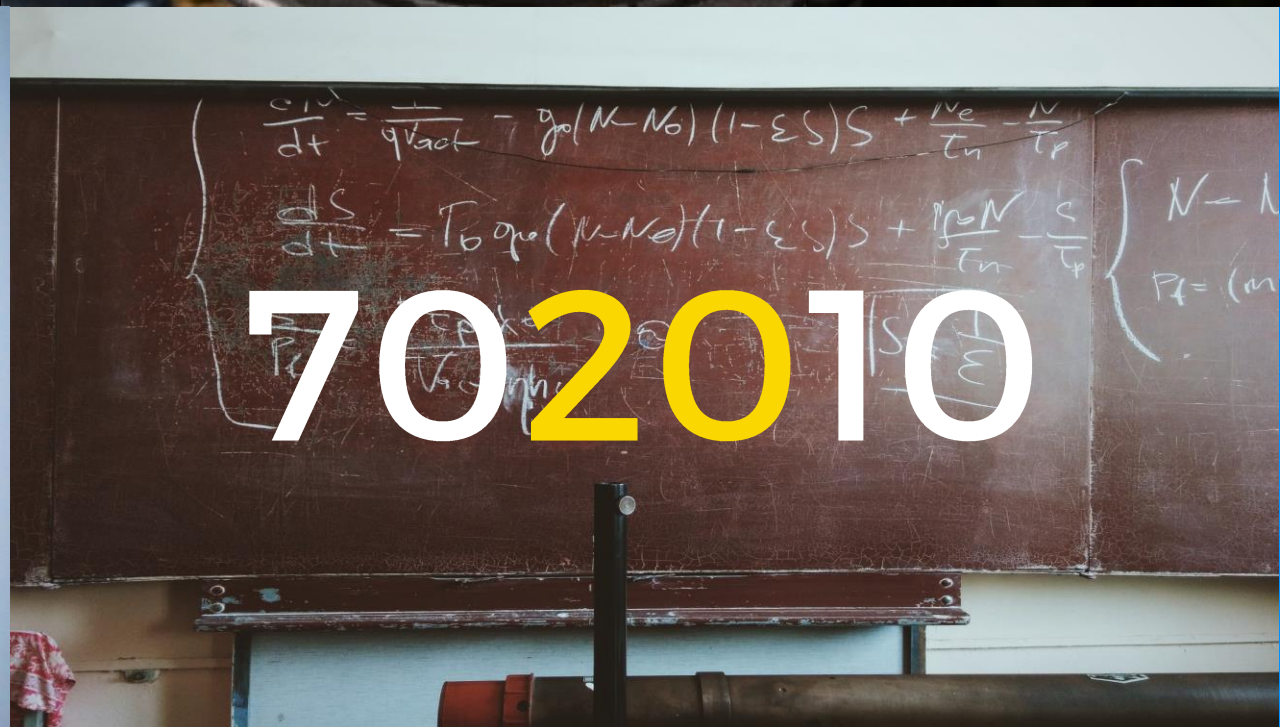
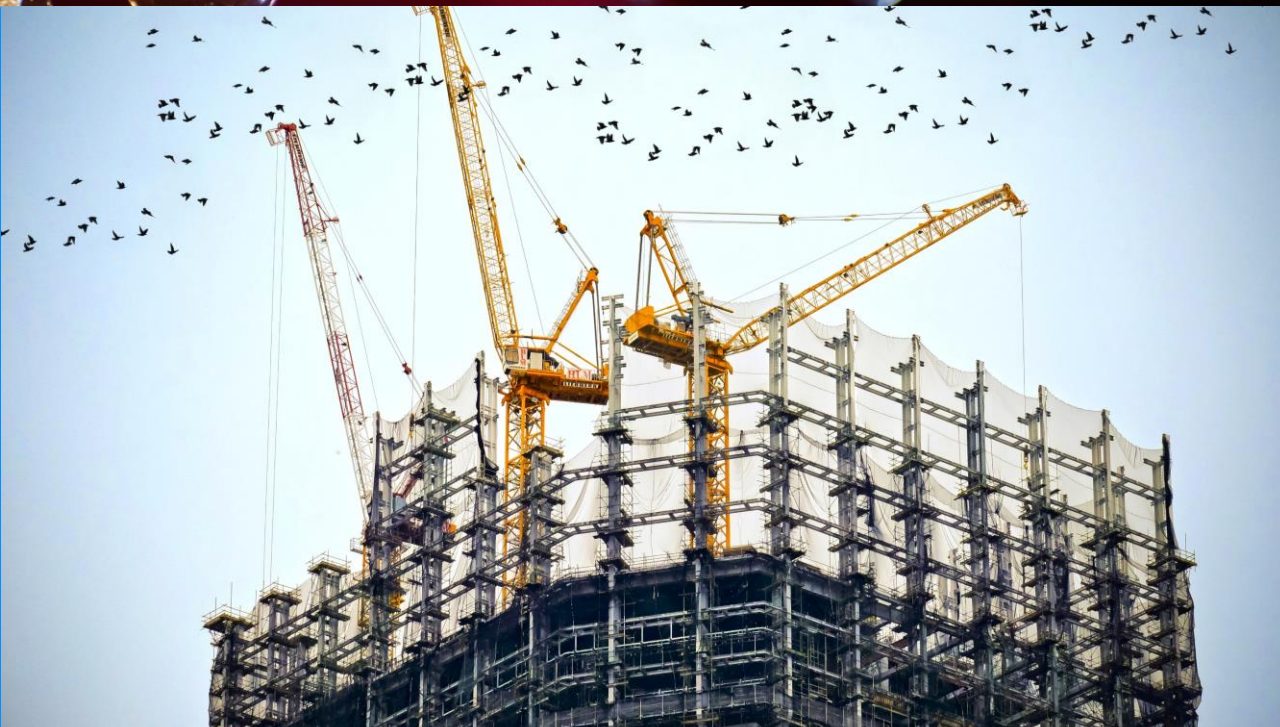
2017
VEM INNOVATION





L'innovazione è l'introduzione di una **TECNOLOGIA** nel mercato, non solo la sua invenzione

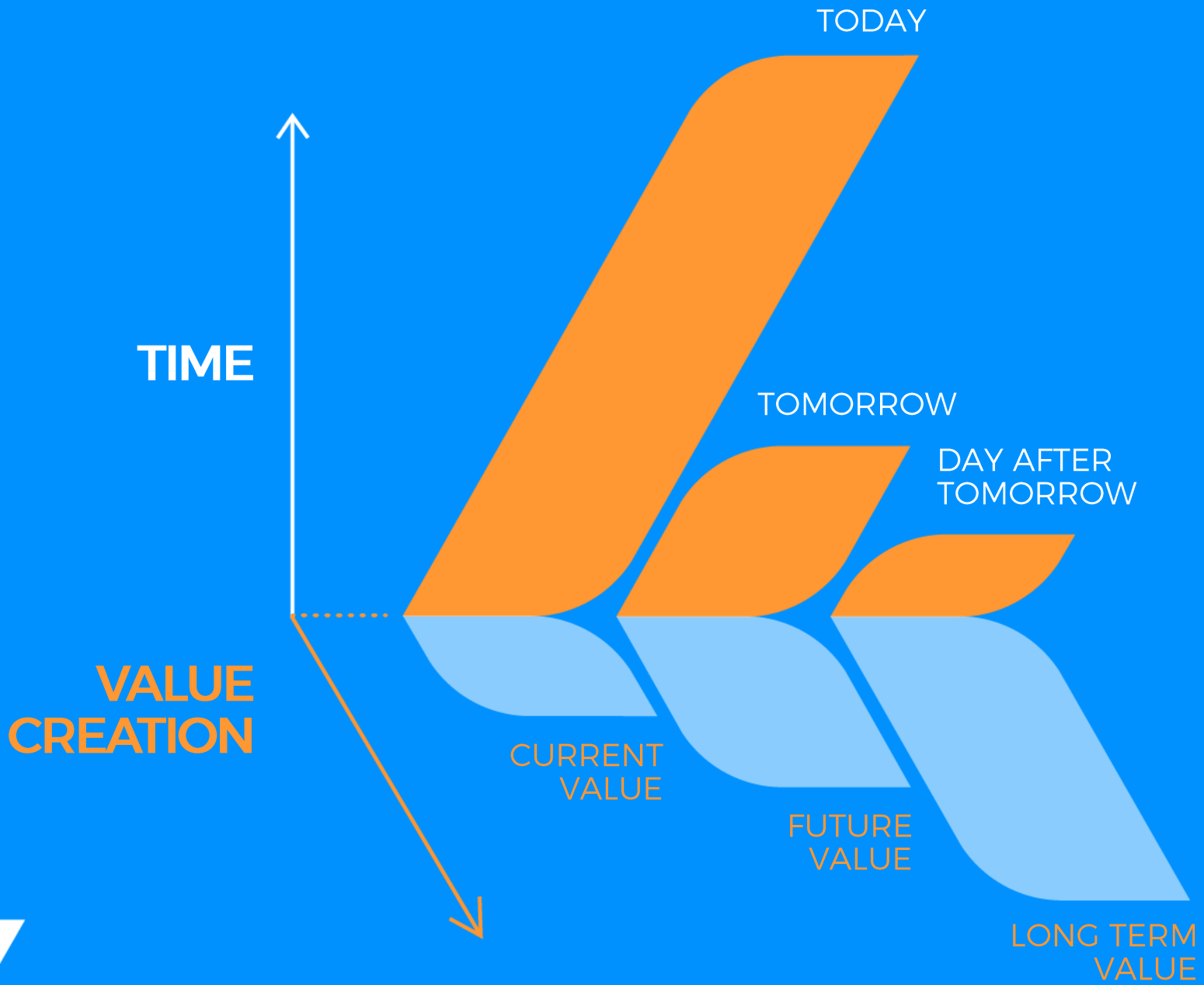
Joseph Schumpeter



$$\frac{dN}{dt} = \frac{1}{q_{\text{fact}}} - \rho_0(N-N_0)(1-\epsilon_S)S + \frac{1}{\tau_n} - \frac{N}{\tau_f}$$
$$\frac{dS}{dt} = \tau_0 \rho_0(N-N_0)(1-\epsilon_S)S + \frac{\rho_0 N}{\tau_n} - \frac{S}{\tau_f}$$

702010

$$\left. \begin{array}{l} N - N_0 \\ P_f = (m) \end{array} \right\}$$



SOY

TODAY

TOMORROW

DAY AFTER
TOMORROW

CURRENT
VALUE

FUTURE
VALUE

LONG TERM
VALUE

DIGITAL PLATFORM

Le piattaforme sviluppate da **mydev**, società del Gruppo VEM specializzata in custom software development, sono pensate per sfruttare tutte le potenzialità delle nuove tecnologie digitali. Il nostro obiettivo è portare innovazione ed efficienza all'interno delle aziende, rendendo la vita più semplice a chi lavora.



MANAGED SERVICES ORCHESTRATION PLATFORM

myvem è la piattaforma cloud che ti permette di monitorare in un unico ambiente, informazioni provenienti da sistemi, applicazioni e sorgenti diversi.

Dal monitoraggio all'event management, dalla documentazione all'asset management, dalla data protection all'IT governance, fino al data center infrastructure e al cabling, con myvem gestisci l'intera infrastruttura tecnologica.

<https://myvem.cloud/>



WORK PLACE MANAGEMENT PLATFORM

SpaceEye è la piattaforma di workplace management che comprende moduli di booking per la condivisione di asset aziendali e moduli di monitoraggio degli spazi.

Con un'unica piattaforma, è possibile pianificare e gestire gli impegni, accedendo a tutte le risorse condivise in maniera organizzata e controllata.

<https://spaceeye.cloud/>



SMART SENSING DECISION PLATFORM

beFarm vuole essere uno degli elementi chiave nel processo di digitalizzazione dell'intera filiera avicola; agendo in prima istanza sull'area zoo mangimistica, per poi estendere l'ambito di esercizio alla supply chain ed altri processi interessati.

<https://befarm.io/>



beFarm

SMART SENSING DECISION
PLATFORM

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<https://befarm.io/>

A photograph of several yellow chicks in a wire cage. The floor is covered with wood shavings. The text 'IoT IS NOT INNOVATION' is overlaid in the center. 'IoT' and 'INNOVATION' are in white, while 'IS NOT' is in orange.

IoT
IS NOT
INNOVATION

A group of yellow chicks in a cage with wood shavings on the floor. The chicks are fluffy and yellow, and the cage has vertical bars. The floor is covered in light-colored wood shavings.

THE REAL INNOVATION IS WHAT

IoT

ALLOW ORGANIZATIONS TO
BECOME:

INTELLIGENT, AGILE, AND
ADAPTIVE

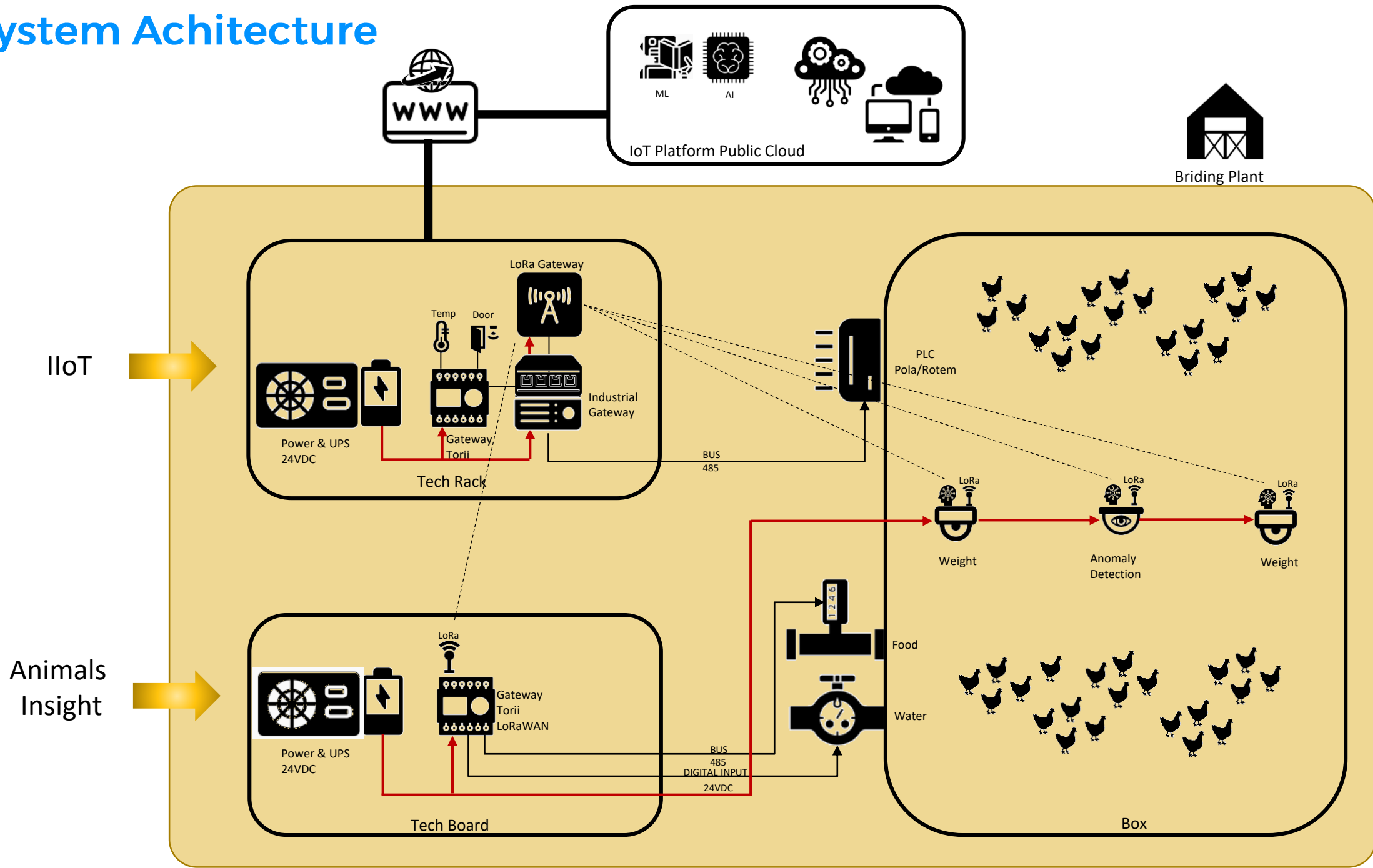
RISULTATI ATTESI

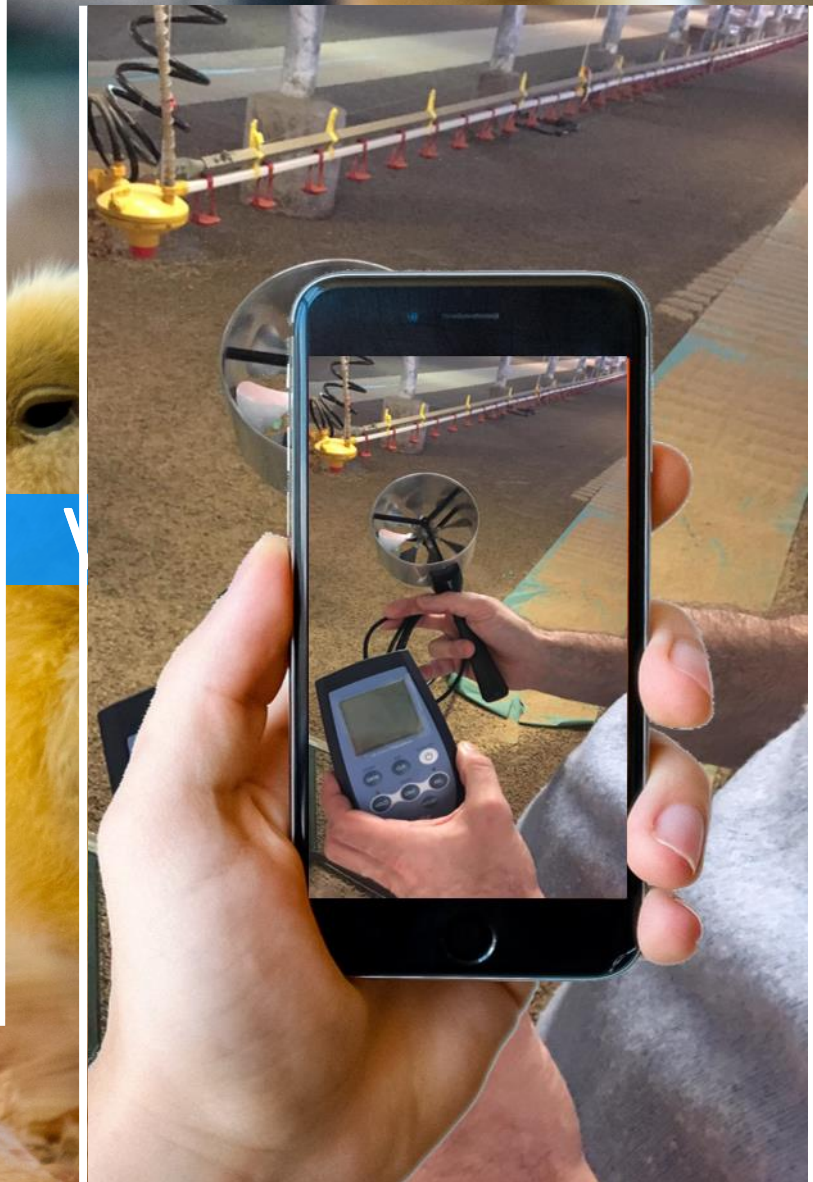
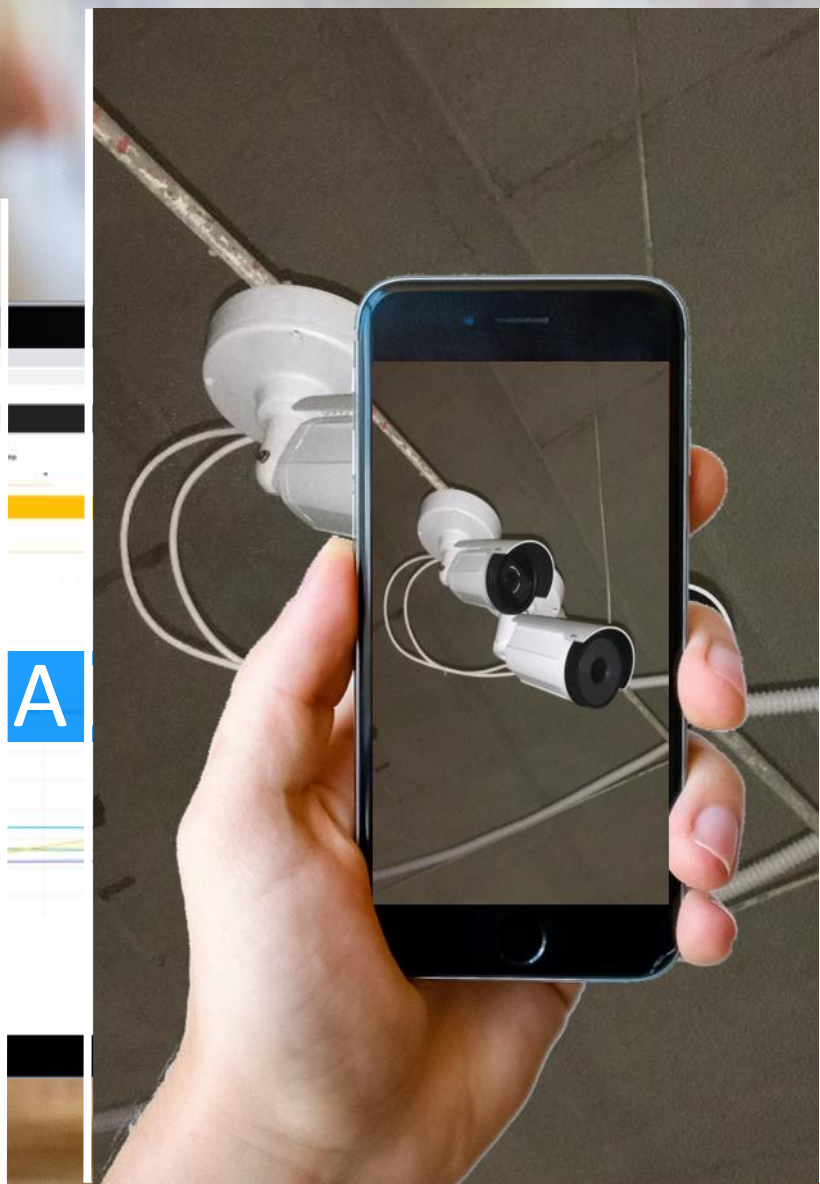
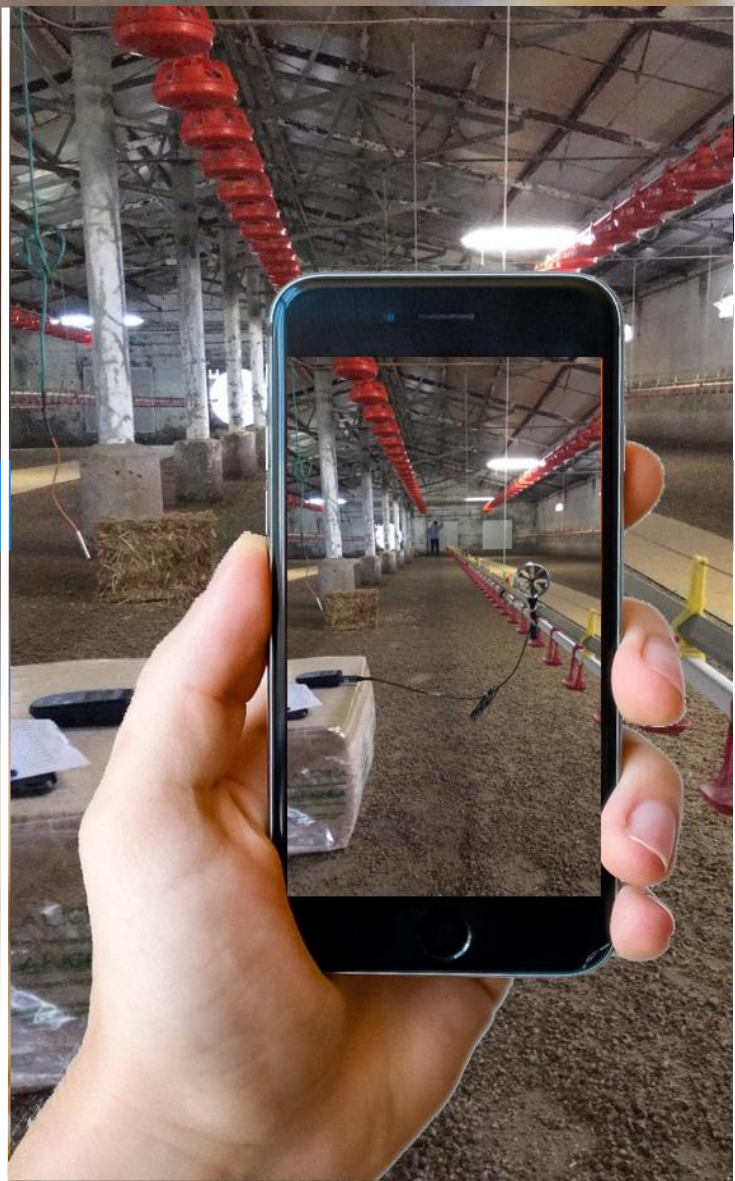
Aggregazione dati di tutti gli allevamenti al fine di creare trend, correlazioni ed allarmi contestualizzati

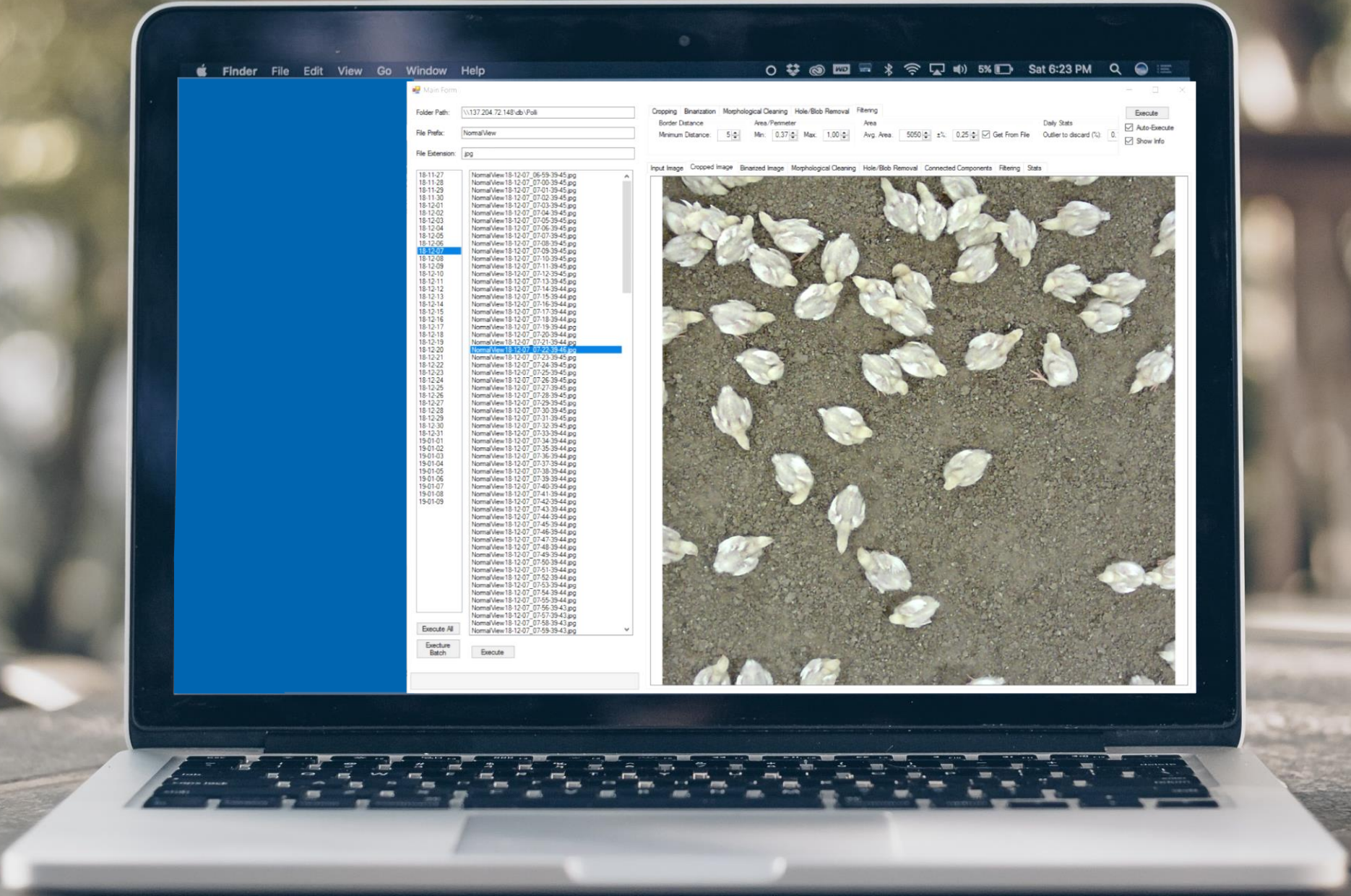
Anticipare le malattie per ridurre l'impiego di farmaci e antibiotici (benessere animale)

Migliorare la programmazione della produzione

System Architecture







Finder File Edit View Go Window Help

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File Extension: .jpg

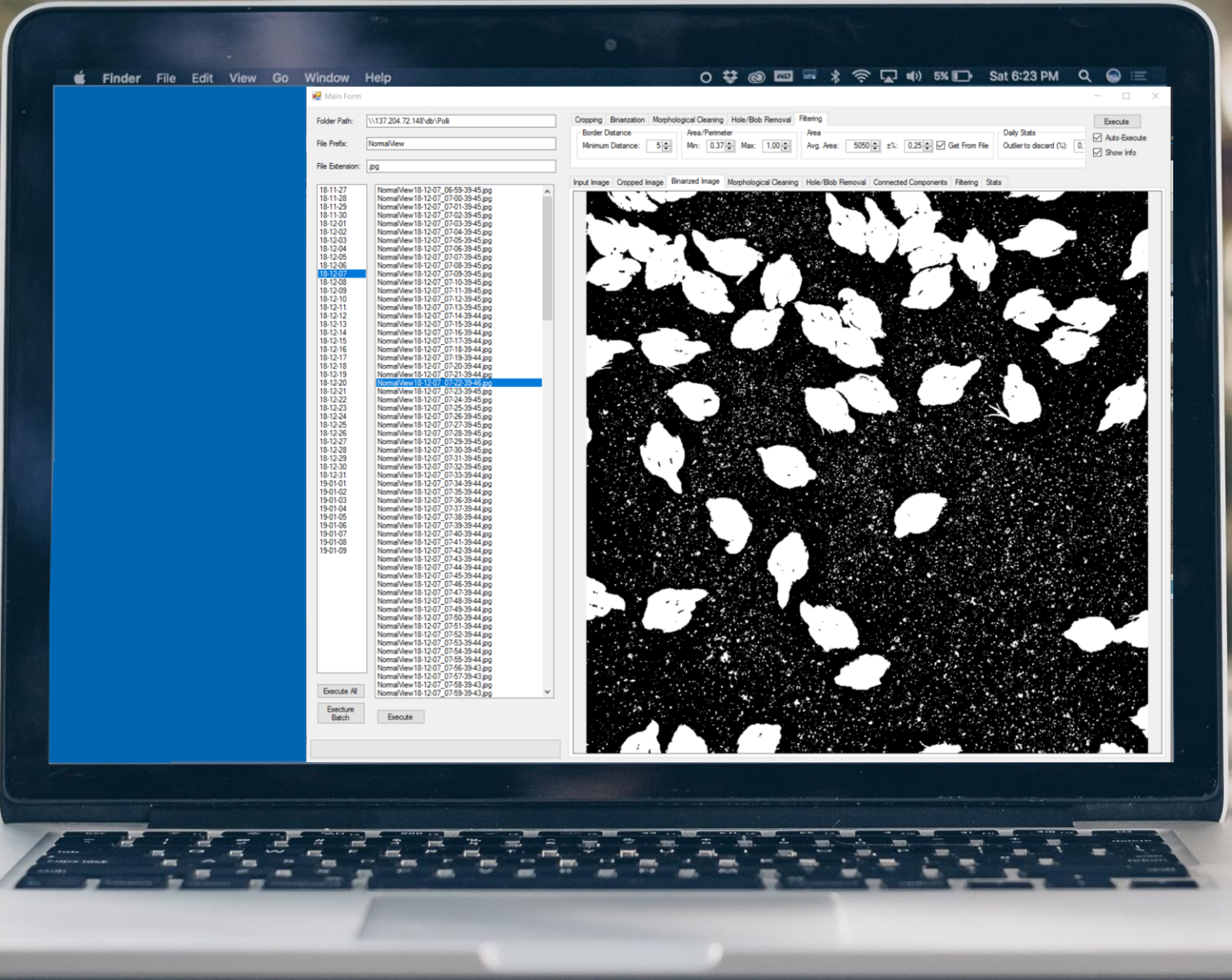
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Cropping Binarization Morphological Cleaning Hole/Blob Removal Filtering
Border Distance: Area/Perimeter
Minimum Distance: 5 Min: 0.37 Max: 1.00 Avg. Area: 5050 z%: 0.25 Get From File
Daily Stats
Outlier to discard (%) 0

Input Image Crossed Image Binarized Image Morphological Cleaning Hole/Blob Removal Connected Components Filtering Stats





Finder File Edit View Go Window Help

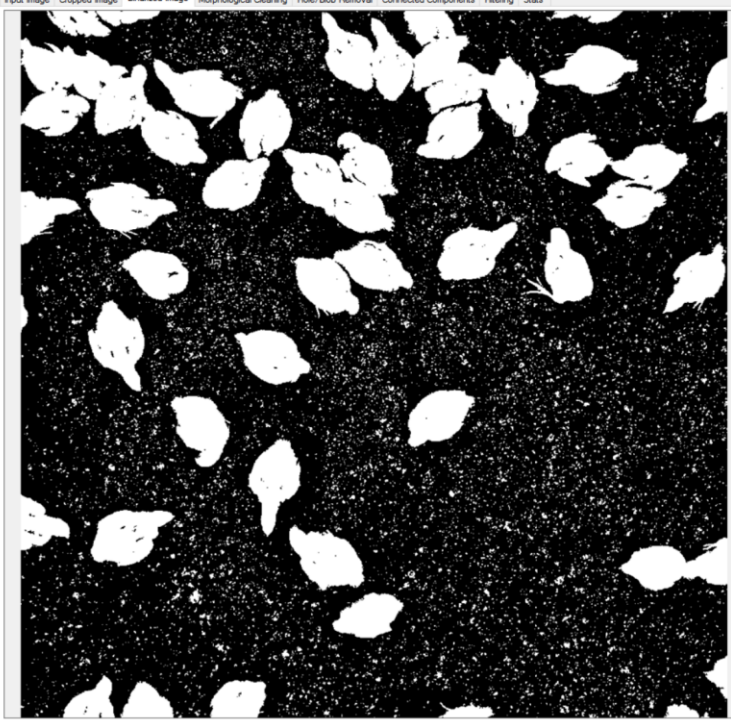
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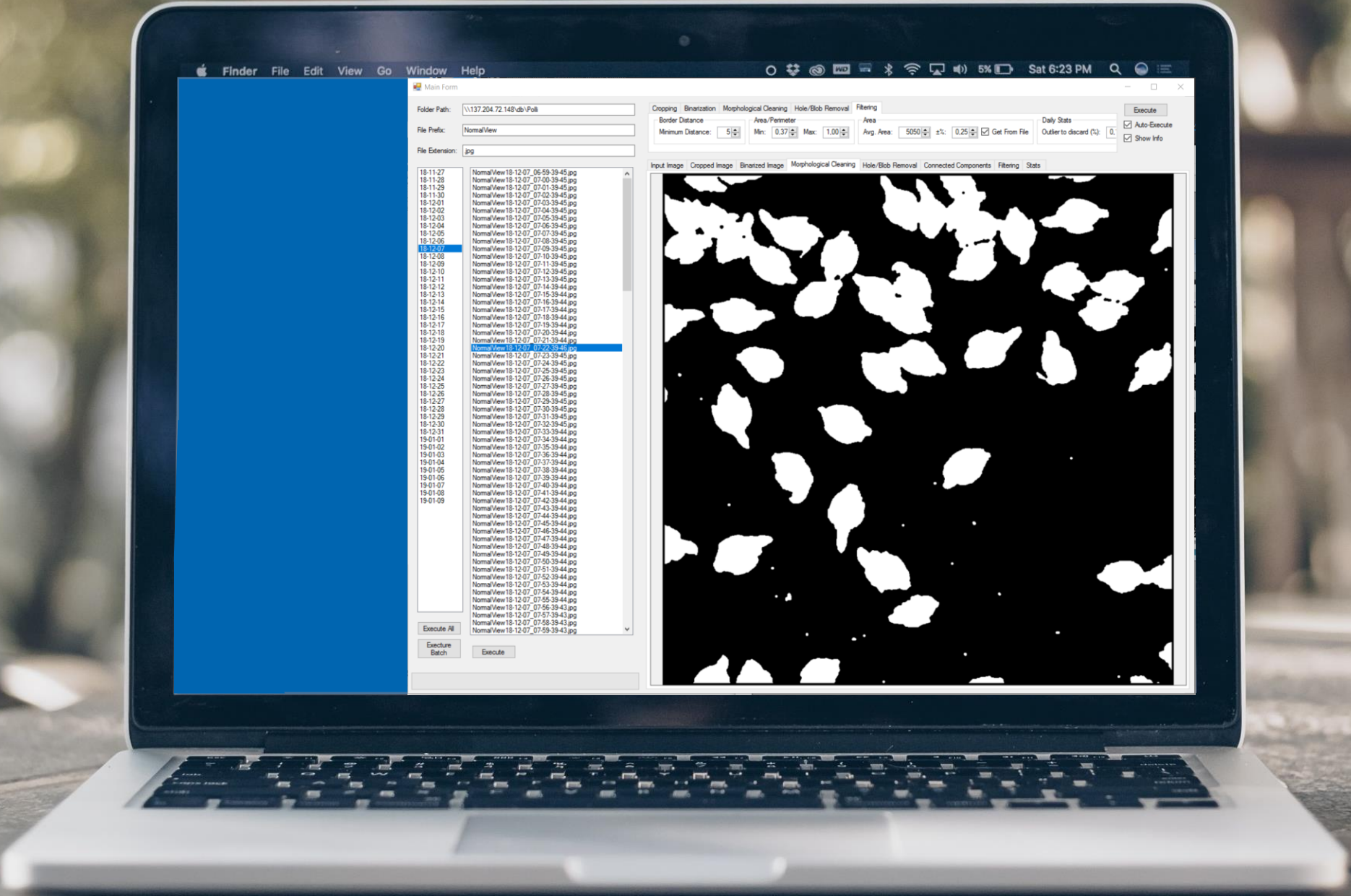
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Crossing Binarization Morphological Cleaning Hole/Obj Removal Filtering
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Minimum Distance: 5 Min: 0.37 Max: 1.00
Avg. Area: 5050 ±%: 0.25 Get From File Outlier to discard (%): 0
Execute
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 Show Info

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Finder File Edit View Go Window Help

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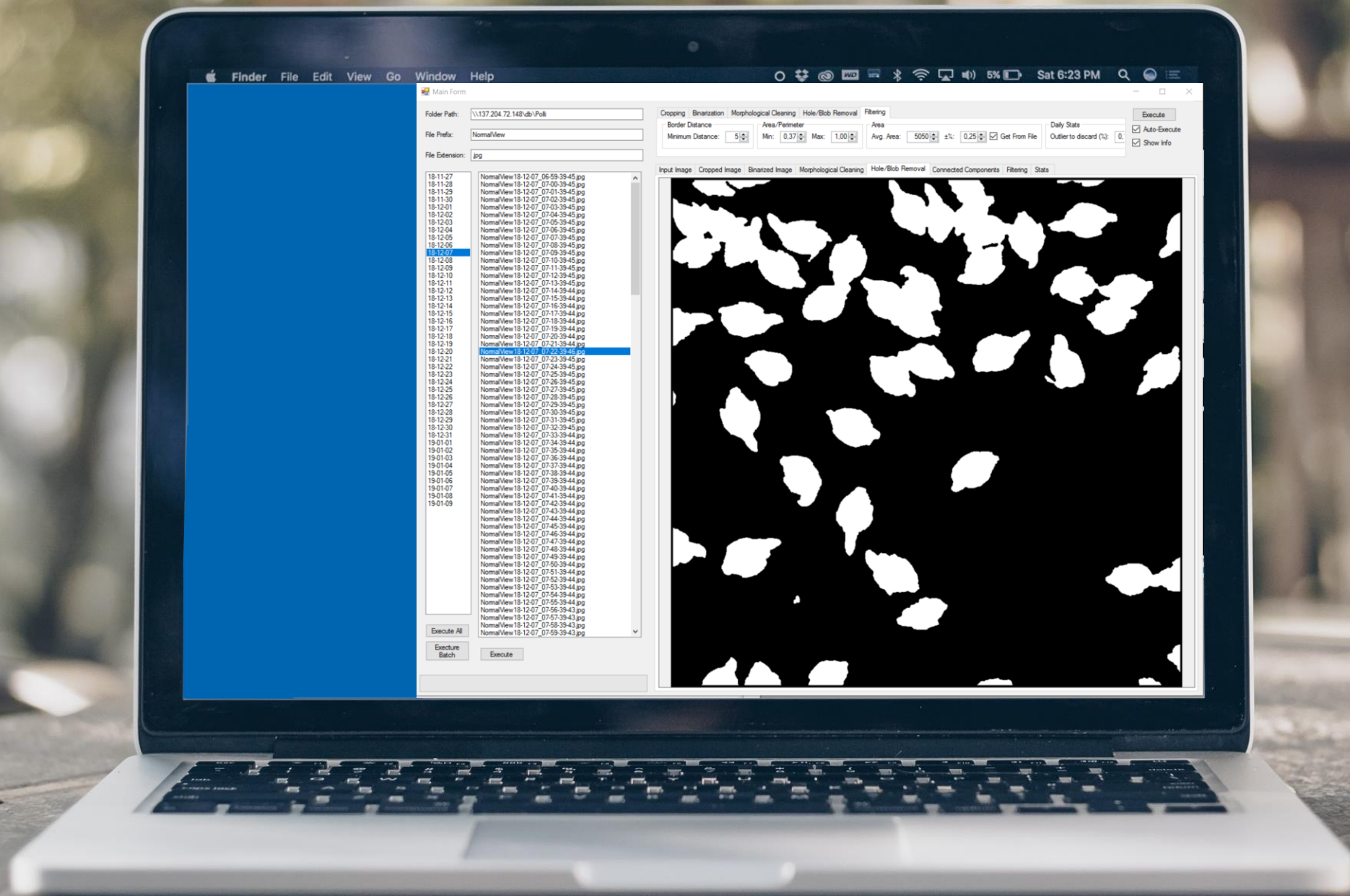
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Area: Avg. Area: 5050 ±%: 0.25
Daily Stats: Auto-Execute Show Info
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Main Form

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File Extension: jpg

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- 18-12-12 NormalView18-12-07-07-14-39-44.jpg
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- NormalView18-12-07-07-58-39-43.jpg
- NormalView18-12-07-07-59-39-43.jpg

Execute All

Execute Batch

Execute

Cropping Binarization Morphological Cleaning Hole/Obj Removal Filtering

Border Distance: Area/Perimeter Area

Minimum Distance: 5 Min: 0.37 Max: 1.00 Avg. Area: 5050 z%: 0.25 Get From File

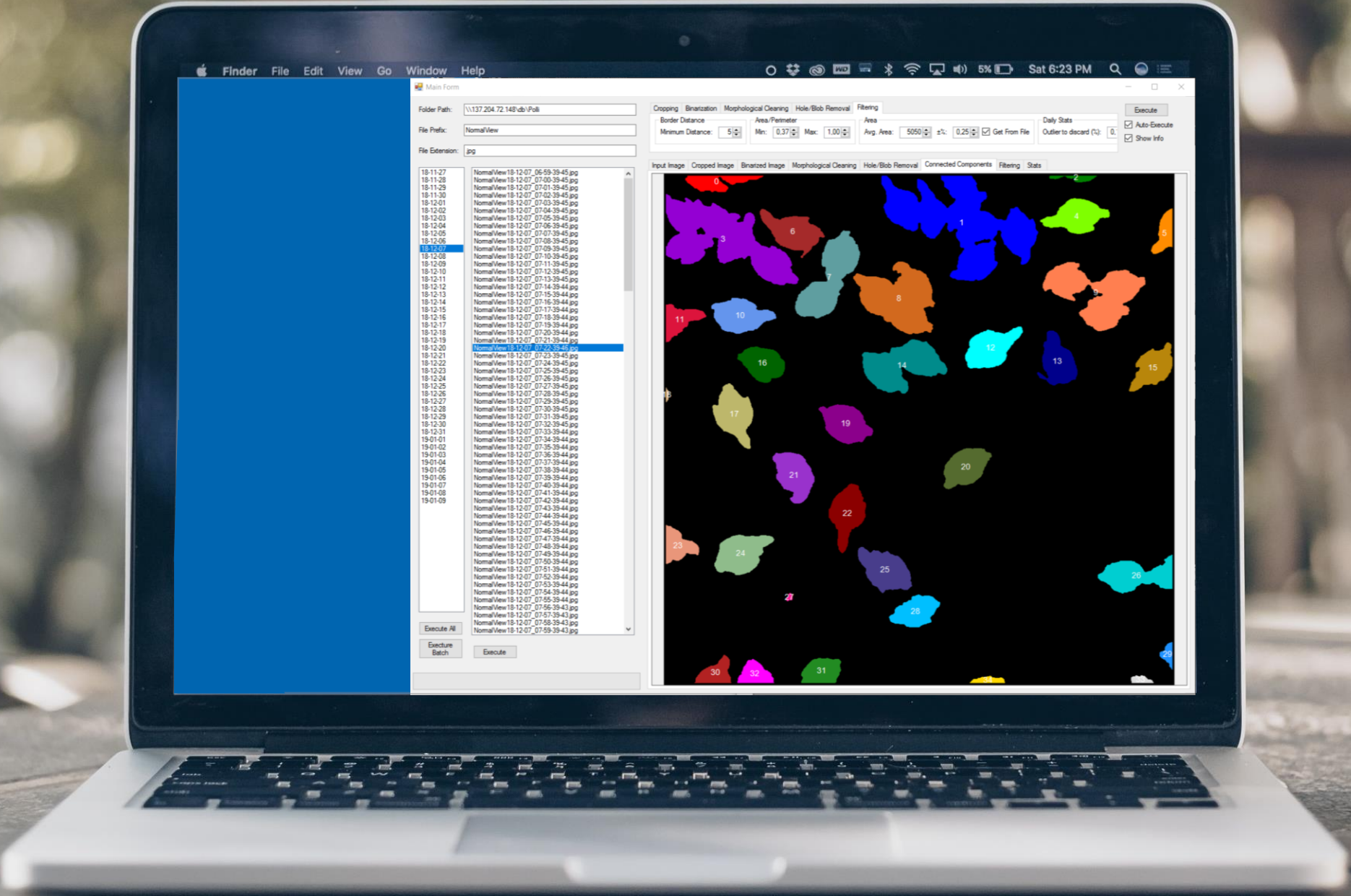
Daily Stats

Auto-Execute Outlier to discard (%) 0 Show Info

Execute

Input Image Cropped Image Binarized Image Morphological Cleaning Hole/Obj Removal Connected Components Filtering Stats





Finder File Edit View Go Window Help

Sat 6:23 PM

Main Form

Folder Path: \\137.204.72.148\ob\Poll

File Prefix: NormalView

File Extension: .jpg

- 18-11-27 NormalView18-12-07_06:59-39-45.jpg
- 18-11-28 NormalView18-12-07_07:00-39-45.jpg
- 18-11-29 NormalView18-12-07_07:01-39-45.jpg
- 18-11-30 NormalView18-12-07_07:02-39-45.jpg
- 18-12-01 NormalView18-12-07_07:03-39-45.jpg
- 18-12-02 NormalView18-12-07_07:04-39-45.jpg
- 18-12-03 NormalView18-12-07_07:05-39-45.jpg
- 18-12-04 NormalView18-12-07_07:06-39-45.jpg
- 18-12-05 NormalView18-12-07_07:07-39-45.jpg
- 18-12-06 NormalView18-12-07_07:08-39-45.jpg
- 18-12-07 NormalView18-12-07_07:09-39-45.jpg**
- 18-12-08 NormalView18-12-07_07:10-39-45.jpg
- 18-12-09 NormalView18-12-07_07:11-39-45.jpg
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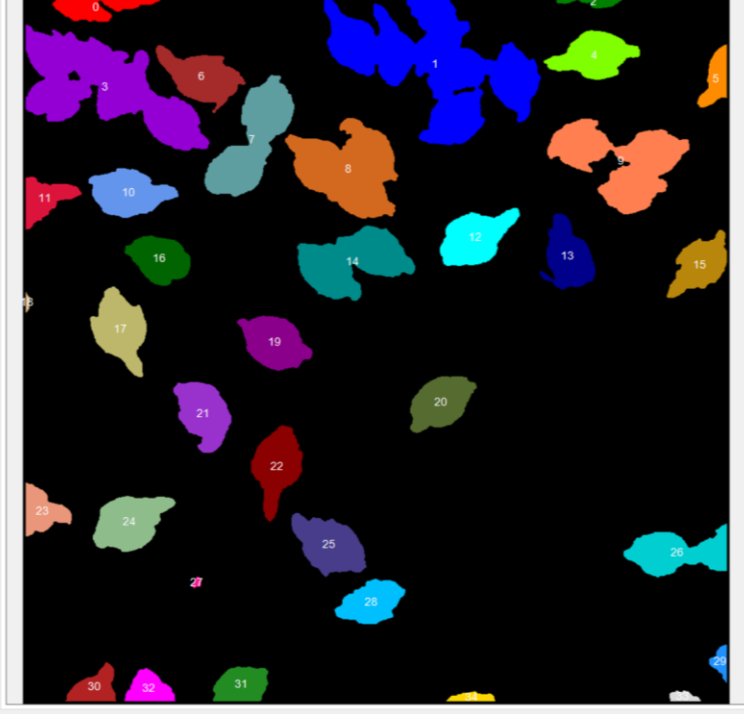
Execute All
Execute Batch
Execute

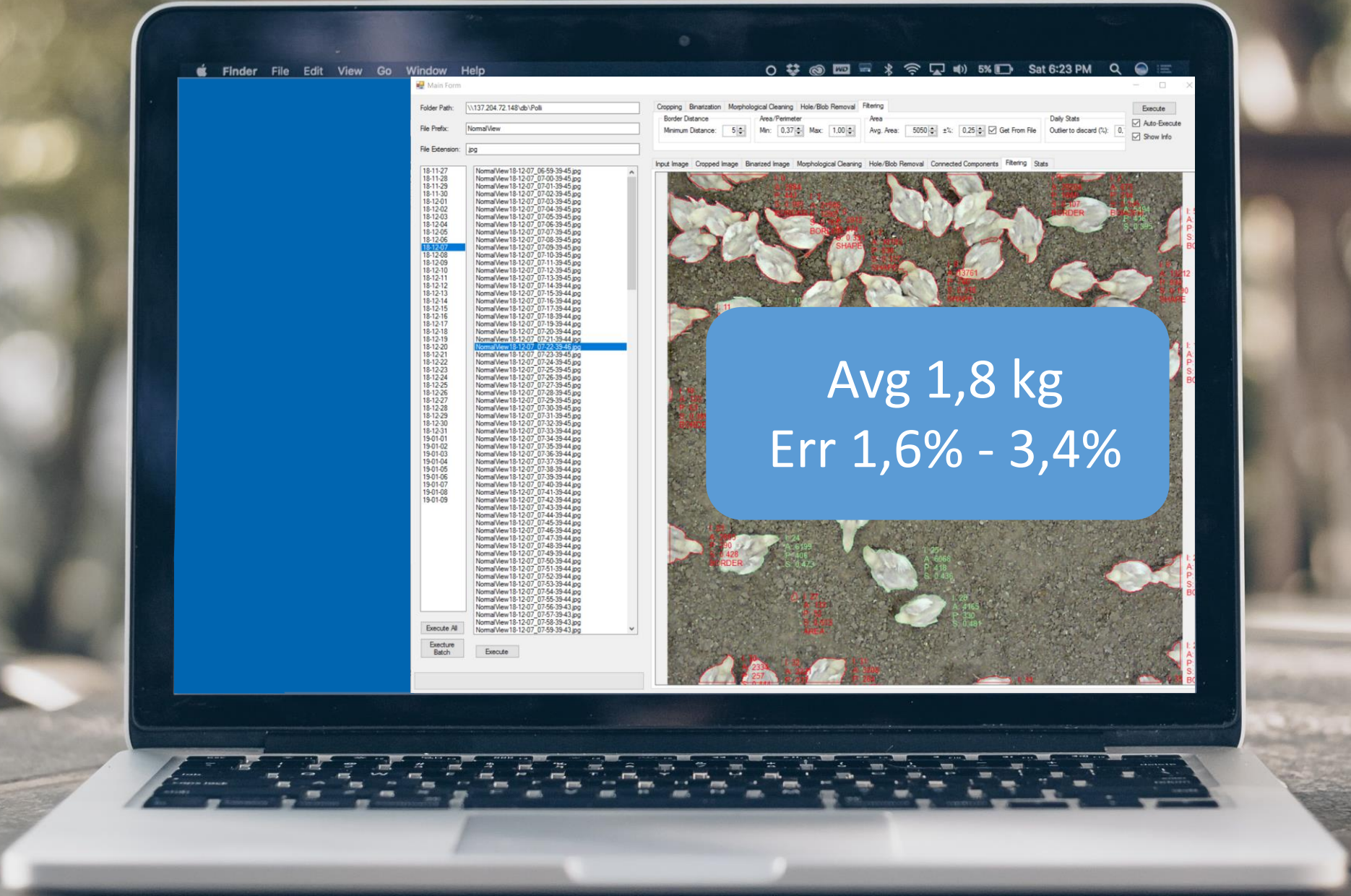
Cropping Binarization Morphological Clearing Hole/ Blob Removal Filtering

Border Distance: 5 Area Perimeter: Min: 0.37 Max: 1.00 Avg. Area: 5050 ±%: 0.25

Daily Stats: Get From File Outlier to discard (%): 0 Auto-Execute Show Info

Input Image Cropped Image Binarized Image Morphological Clearing Hole/ Blob Removal Connected Components Filtering Stats





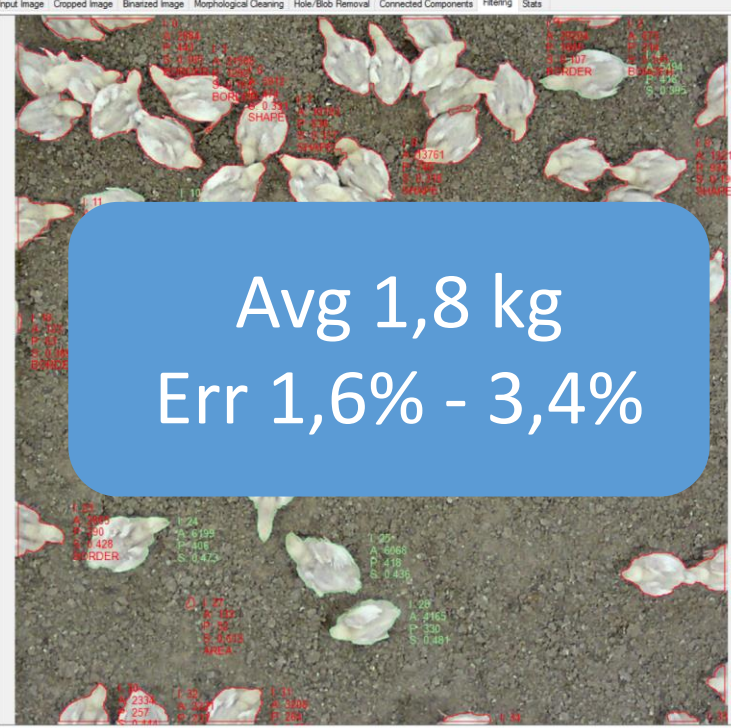
Finder File Edit View Go Window Help

Sat 6:23 PM

Main Form
Folder Path: \\137.204.72.148\ub\Pull
File Prefix: NormaView
File Extension: .jpg

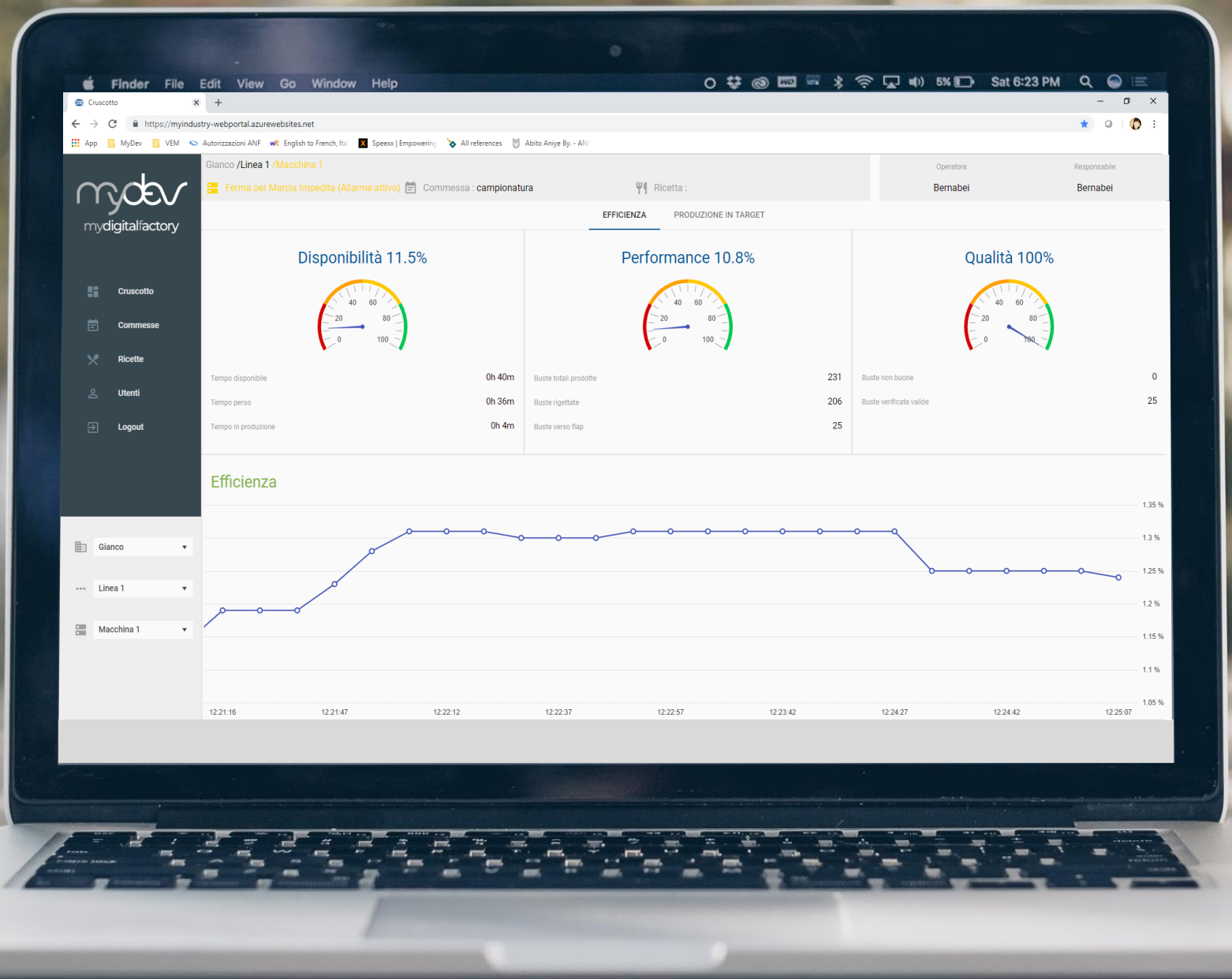
Cropping: Brnartization Morphological Cleaning Hole/Blob Removal Filtering
Border Distance: Area/Perimeter Area
Minimum Distance: 5 Min: 0,37 Max: 1,00 Avg. Area: 5050 ±: 0,25 Get From File Daily Stats
Outlier to discard (%): 0 Auto-Execute Show Info

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- NormaView18-12-07_07-58-39-45.jpg
- NormaView18-12-07_07-59-39-45.jpg



Avg 1,8 kg
Err 1,6% - 3,4%

Execute All Execute Batch Execute



mydev
mydigitalfactory

- Cruscotto
- Commesse
- Ricette
- Utenti
- Logout

Gianco

Linea 1

Macchina 1

Gianco / Linea 1 / Macchina 1

Ferma per Marcia Impedita (Allarme attivo) Commessa : campionatura Ricetta :

Operatore: Bernabei Responsabile: Bernabei

EFFICIENZA PRODUZIONE IN TARGET

Disponibilità 11.5%

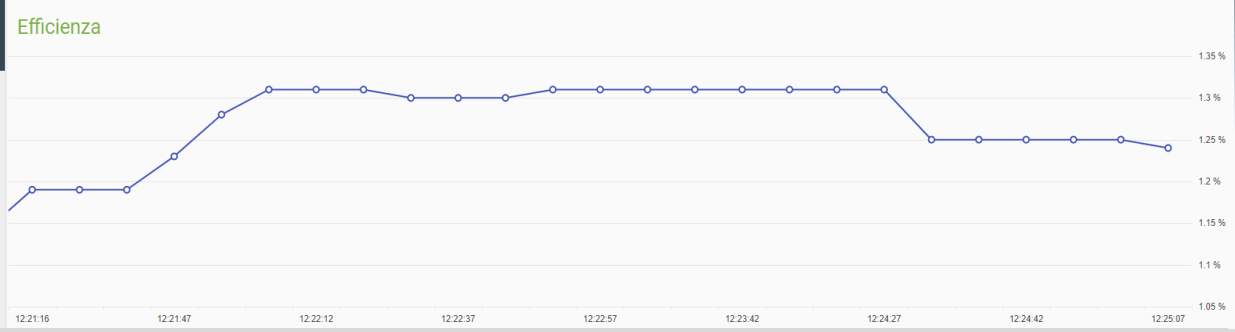
Tempo disponibile	0h 40m
Tempo perso	0h 36m
Tempo in produzione	0h 4m

Performance 10.8%

Buste totali prodotte	231
Buste rigettate	206
Buste verso flap	25

Qualità 100%

Buste non buone	0
Buste verificate valide	25

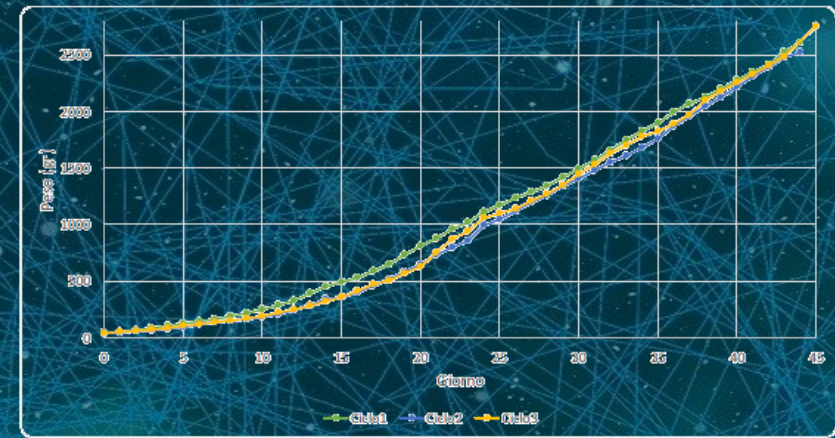
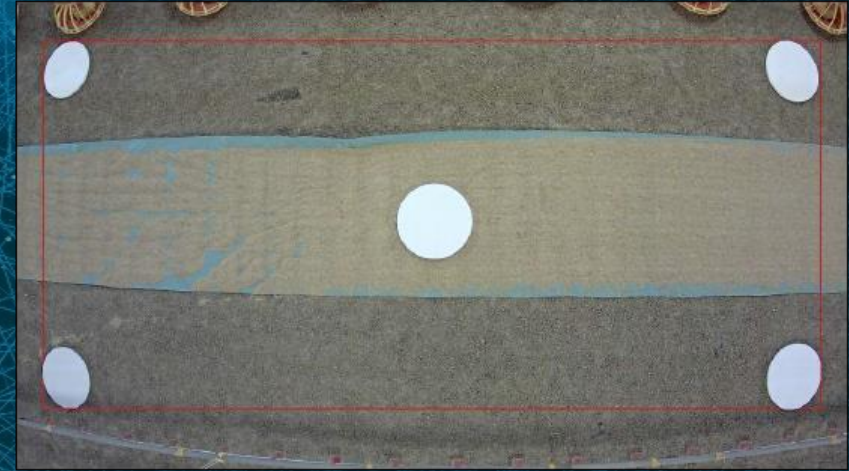


ALCUNE DELLE SFIDE AFFRONTATE

Normalizzazione dell'immagine per evitare la distorsione dei bordi

Training per gli algoritmi di Machine Learning

Realizzazione di connessioni senza rete ethernet (nuovi protocolli: LoRa, NB-IOT etc.)

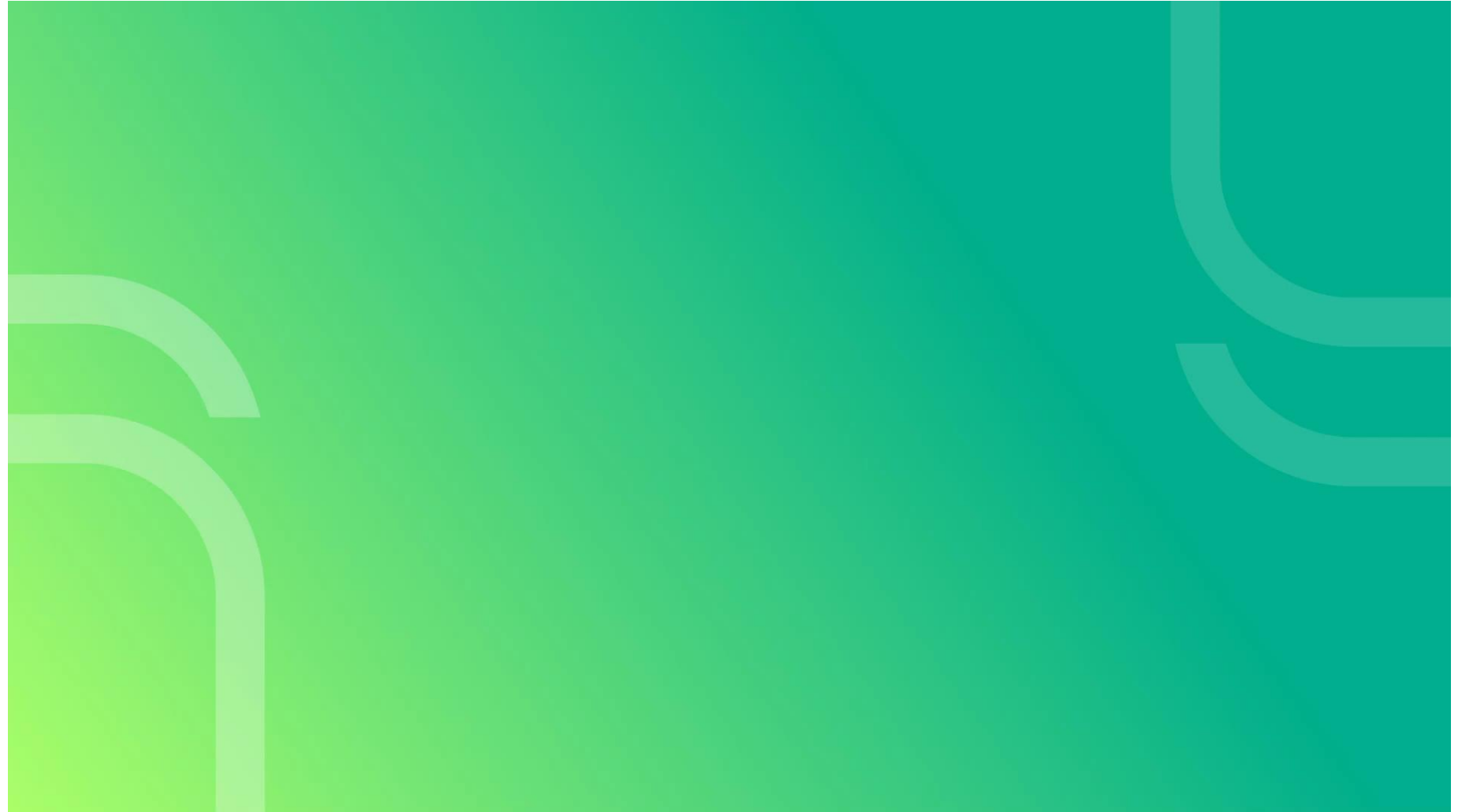




Great things are
the result of a
series of small
things
combined
together

VINCENT
VAN GOGH

BE FARM – LA PAROLA A ELLIOT



Elliot IOT Stories - <https://www.youtube.com/playlist?list=PLYm-7XyB1zxEOxyYBCZiX0jeySLsFN-1S>



SIMONE MORO

ALLENATI
mentre gli altri
dormono.

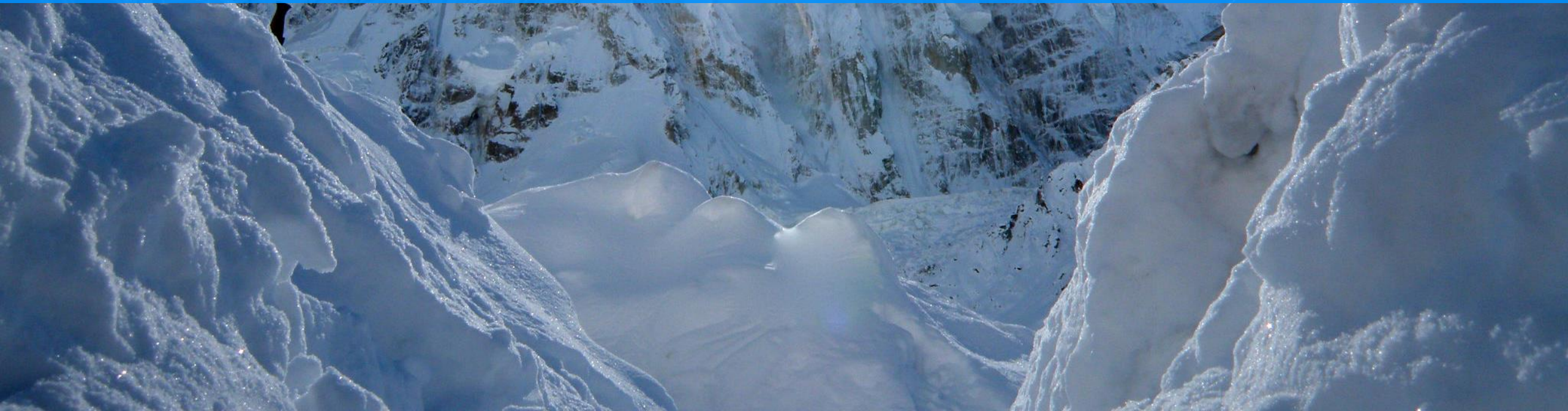
STUDIA
mentre gli altri
escono.

RESISTI
mentre gli altri
mollano.

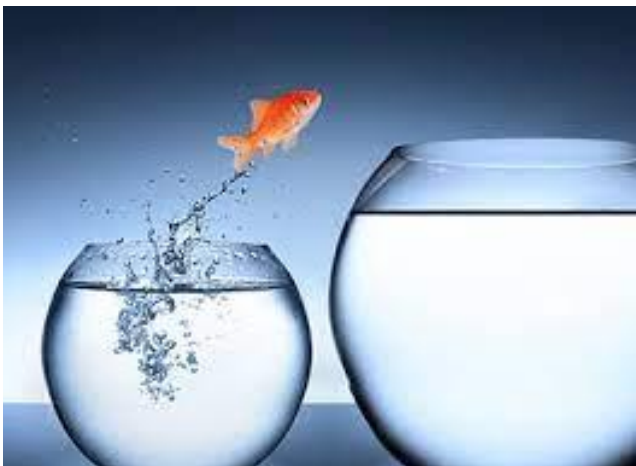
Presto farai quello
che gli altri
SOGNANO!



NANGA PARBAT



ACCETTATE LA SFIDA?



Lauree complessive		
	% Donne laureate	% Uomini laureati
2012	59%	41%
2013	59%	41%
2014	59%	41%
2015	58%	42%
2016	58%	42%
2017	58%	42%
2018	57%	43%
2019	57%	43%
2020	57%	43%

Lauree STEM		
	% Donne laureate	% Uomini laureati
2012	40%	60%
2013	40%	60%
2014	40%	60%
2015	40%	60%
2016	39%	61%
2017	40%	60%
2018	39%	61%
2019	39%	61%
2020	39%	61%

Portale dei Dati dell'Istruzione Superiore del Ministero:
<http://ustat.miur.it/opendata/>.

