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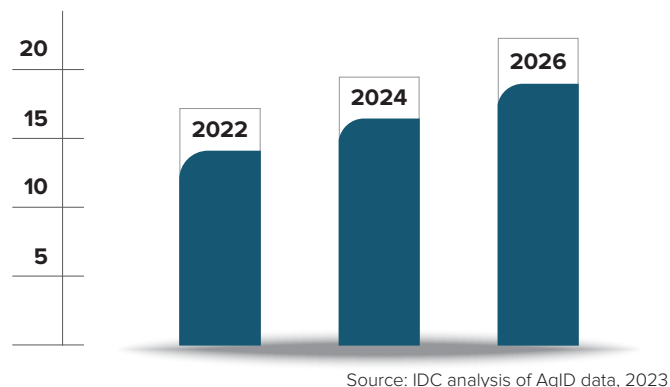
BENEFITS AND OPPORTUNITIES OF ITALIAN CERTIFIED EMAIL (PEC):

A CORNERSTONE OF DIGITAL TRUST SERVICES OF THE FUTURE

The PEC in Italy: Facts and Figures

The PEC as a Growing Digital Trust Service

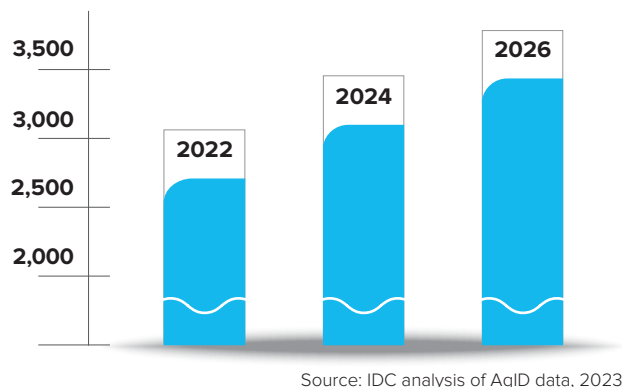
Number of PEC accounts (millions)



The PEC is a digital trust service used by citizens, professionals, enterprises and public administrations as an official and formal communication tool across multiple use cases.

Number of Messages and Most Common Use Cases

Number of PEC messages (millions)



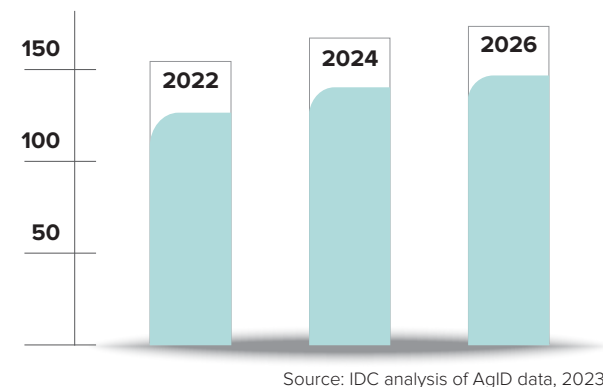
The most common use cases are:

- Public administrations: Communications between municipalities and other entities regarding citizen registries and electoral records
- Companies: Sending fiscal and social security documents
- Professionals: Indemnity requests and warnings
- Citizens: Communications with public administrations and utility companies

Benefits and Opportunities of Italian Certified Email (PEC):
a Cornerstone of Digital Trust Services of the Future

The PEC as a Replacement for Traditional Certified Mail*

Certified mails replaced by the PEC (millions)



The massive replacement of certified mail by the PEC is primarily linked to new use cases for organizations and public administrations. PEC adoption could see a boost when citizens elect their own digital domiciles. This would also spur a rise in the number of PEC messages sent.

*Certified emails include registered and insured mails, and judicial documents.

5 economic and environmental benefits of the PEC



Reduction of travel



Reduction of carbon footprint



Savings in terms of FTEs (full-time equivalents)



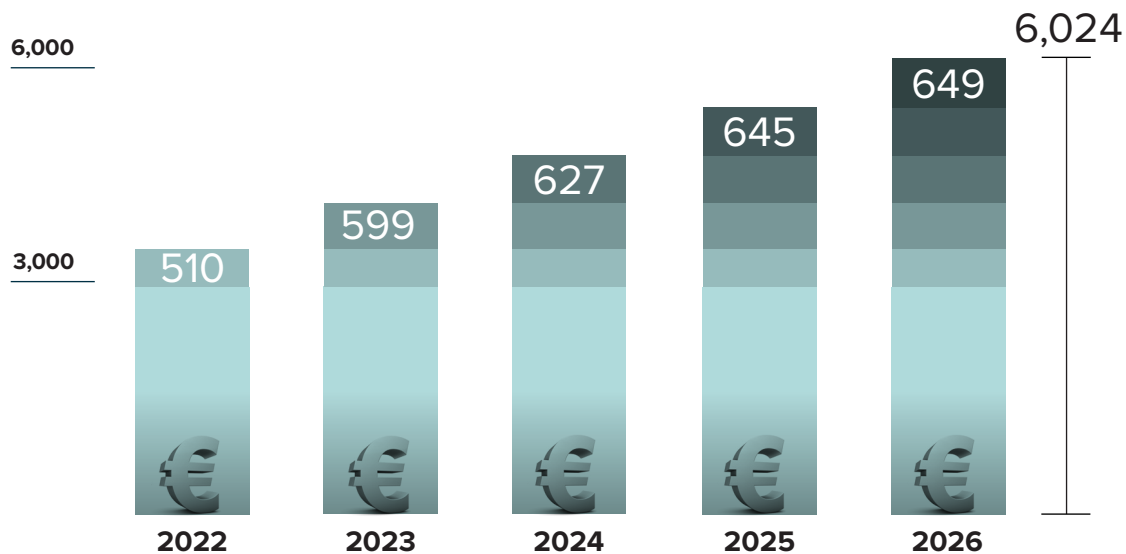
Freeing up of storage space



Trees and paper saved

Benefits of the PEC

Cumulative net benefits since 2008 (€ millions)



Source: IDC, 2023

The benefits of replacing certified mail with the PEC are linked to both reductions and savings, across multiple factors: travel required, number of trees knocked down and paper used, CO2 emissions, waiting times at post offices, and space needed to physically store mail.

Equates to €649 million in 2026 alone.



The 2026 net benefits in using the PEC equal the “Automotive Fund” provided by the Italian government in 2024 to encourage the purchase of private electric, hybrid, and low-emissions vehicles.

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Benefits and Opportunities of Italian Certified Email (PEC): a Cornerstone of Digital Trust Services of the Future

Benefits of the PEC: Reduction of Travel

REDUCTION OF TRAVEL (km Millions – Annual Estimate)



The use of traditional postal services requires users and mail carriers to cover long distances.

Source: IDC, 2023



348.8 million km
equates to roughly
5 times the length of
vehicle-accessible
roads in the world.

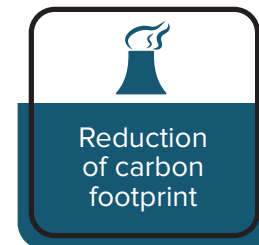
Benefits of the PEC: Reduction of Carbon Footprint

REDUCTION OF CARBON FOOTPRINT (‘000 Tons of CO₂ – Annual Estimates)



Considerable amounts of carbon dioxide are generated by postal fleets and citizens/employees traveling from their home/work premises to post offices via a personal or company vehicle.

Source: IDC, 2023



107 kilotons of CO₂ saved is equal to the CO₂ emitted overall in Italy in just 2.5 hours.

Benefits of the PEC: time savings

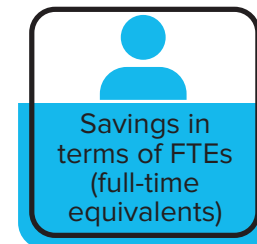
ELIMINATION OF WAITING TIMES (FTEs* – Annual Estimates)



The average waiting time to access postal services in Italy is around 15 minutes. Enabling remote access to these services via fixed and portable devices facilitates a considerable reduction in waiting times.

* 1 FTE is the full-time equivalent of a full-time employee (40 hours per week)

Source: IDC, 2023



3,113 FTEs equates to the total workforce employed in both of Rome's airports in 2021.

Benefits of the PEC: reduction of storage spaces

FREEING UP OF STORAGE SPACE (thousands of square meters - annual estimate)



One linear meter of archive takes up approximate 0.2 square meters and weights 60 kg in paper form. The digital storage of what was previously done on paper allows for a dramatic decrease in the amount of physical storage space needed.

Source: IDC, 2023



1,699 thousands square meters equates to roughly 4 times the area covered by Vatican City.

Benefits of the PEC: protection of the environment

TREES SAVED (Number of Trees – Annual Estimates)



A tree with an average weight of 130 kg produces about 30.7 reams of paper (153,000 sheets). The use and storage of digital documents facilitates a major reduction in the use of paper.

Source: IDC, 2023



71,000 trees equates to roughly four times the number of trees planted in New York's Central Park.



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