
AI
SWEDEN
Accelerating the use of AI in Sweden
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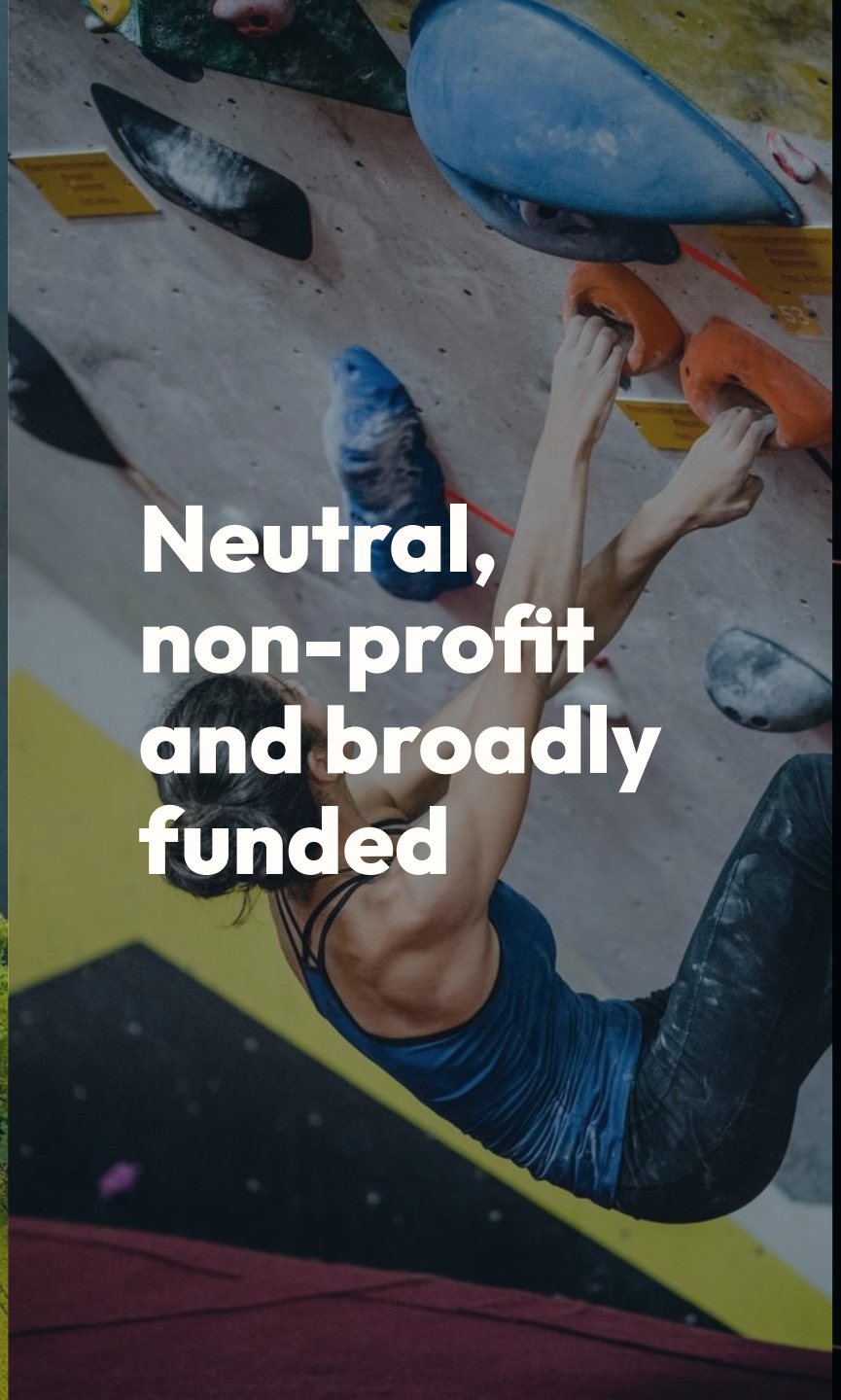
AI
SWEDEN
Accelerating the use of AI for the benefit of our society, our competitiveness, and for everyone living in Sweden.

National center for applied AI



Neutral, non-profit and broadly funded

Private sector, public sector, academia

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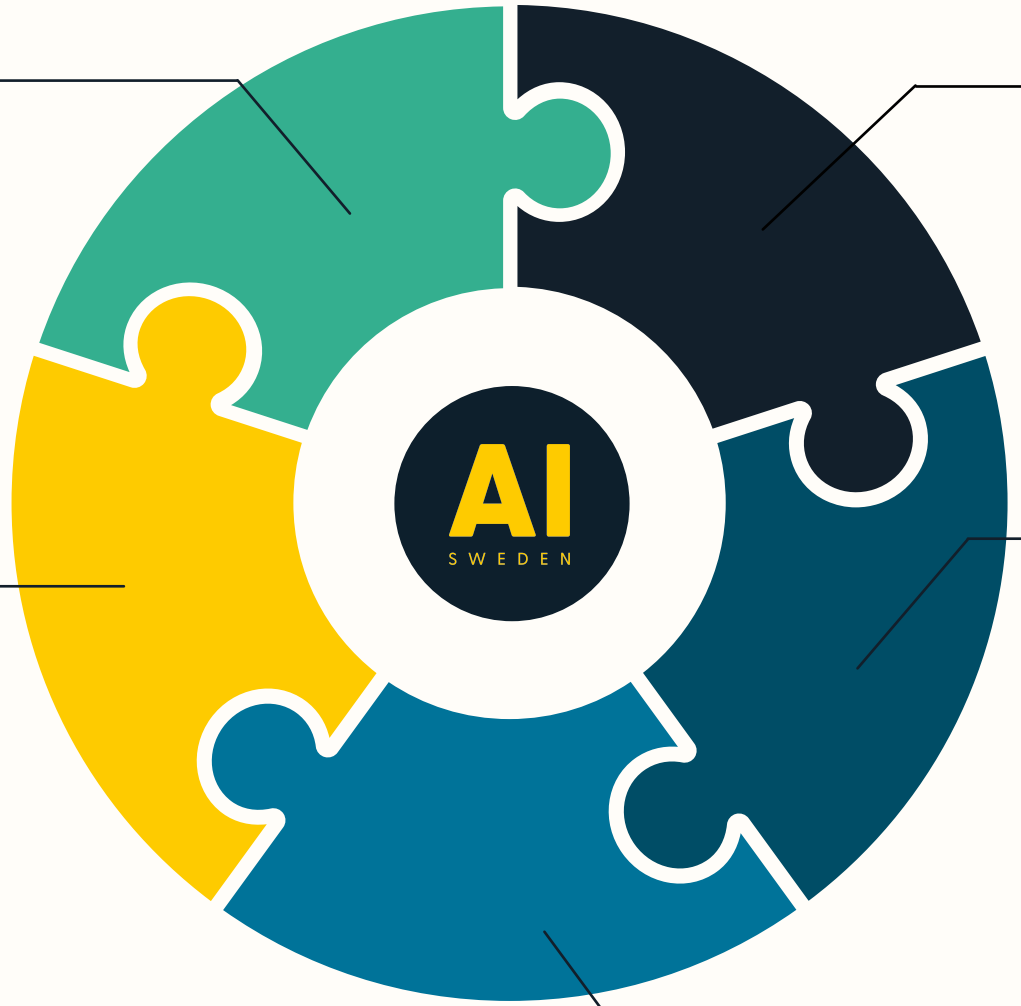
An ecosystem spanning all parts of society



Public sector

Academia &
Research institutes

Startups & SMEs

NGOs, unions &
trade associations

Industry & Large
enterprises


FINSPÅNG
Lidingö stad
Stockholms stad
Region Gävleborg
SKANE
LANTMÄTERIET
MSB Myndigheten för samhällsskydd och beredskap
SOS Alarm
Myndigheten för psykologiskt försvar
CHALMERS UNIVERSITY OF TECHNOLOGY
LINKÖPING UNIVERSITY
Göteborgs Stad
Linköping
LULEÅ KOMMUN
Region Halland
MYNDIGHETEN FÖR TILLGÄNGLIGA MEDIER
Polismyndigheten
FMV
Försvarshögskolan
Linnéuniversitetet
HELSINGBORG
Katrineholm
Uppsala kommun
SKÖVDE
REGION NORRBOTTEN
Rymdstyrelsen Swedish National Space Agency
TRAFIKVERKET
FOI
FÖRSVARSMAKTEN
FRAUNHOFER CHALMERS
Skolverket
BTH
UNIVERSITY OF GOTHENBURG
STOCKHOLM SCHOOL OF ECONOMICS
MALMÖ UNIVERSITY
Halmstad
Kristianstads kommun
LUNDS KOMMUN
Södertälje kommun
Region Stockholm
SWEDAC
vti
SCB
RI.SE
Universitets- och högskolerådet
HALMSTAD UNIVERSITY
The Swedish Law and Informatics Research Institute
LOMMA KOMMUN
VARBERGS KOMMUN
Växjö kommun
VGR
Skatteverket
SVERIGES RIKSBANK
VINNOVA
HÖGSKOLAN VÄST
PITE ENERGI
TJÖRNS kommun
ÖRESUNDS KRAFT
ÖstgötaTrafiken
Energimarknadsinspektionen Swedish Energy Markets Inspectorate
SLU
universeum
Göteborg Energi
KARLSKOGA ENERGI & MILJÖ
UMEÅ ENERGI
SVENSKA KRAFTNÄT
almi
AKADEMISKA HUS
Mälardalen University
ÖREBRO UNIVERSITET
HÖGSKOLAN I BORÅS
ARBOAIR
Föreningen FVO
AI EMPOWER LABS
dcipher
EKIONO
fictive reality
ferritico
Hybridity
Gimic
Svensk Handel
SVERIGES ALLMÄNNYTTA
Riksidrottsförbundet
Almega
AKAVIA
HOPSWORKS
AI SWEDEN
CIKO
Arkus AI
embed
EDAiDER
demoskop
ebbot
ENERYIELD
AVFALL SVERIGE
unionen
Fremia
DEEPFORESTRY
opper
GREEN AI CLOUD
centigo
AstraZeneca
aws
DELL Technologies
KOGNIC
rek.ai
intric
modulai
OXIDE.AI
ATEA
ERICSSON
BOLIDEN
Lightbringer
REBASE
arctic group
CGI
essity
SÖDRA
Google
IBM
MANOMOTION
NEUROLEARN
replis
aixio
Cornerstone
SENSATIVE
SiB SOLUTIONS
ImBox
Familjens Jurist
COMBITECH
Swedbank
intel
Hewlett Packard Enterprise
scaleout
Stakater
SILO AI
Glesys
neodev
nox
GlobalConnect
Länsförsäkringar
Smartr
Spotscale
TokenTek
stacken.
Recorded Future
VIOLET
NEXER
SCANIA
if...
Stena
Microsoft
Stream Analyze
Talkamatic
Tendium
SYNDATA
UNIBAP
TENFIFTY
TagMaster
LEARN FROM REALITY
centiro
PROACT
VOLVO
SAAB
NetApp
THE TRAIN BRAIN
turbotic
UNIVRSES
unikum
upsales
MAXAR
Deloitte.
zenseact
ZEEKR Technology Europe
Red Hat OpenShift AI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Project RE:CREATE
Strengthened design process in digital collaboration
Med stöd från
VÄSTRA
GÖTALANDSREGIONEN
Co-funded by
the European Union

Focus areas

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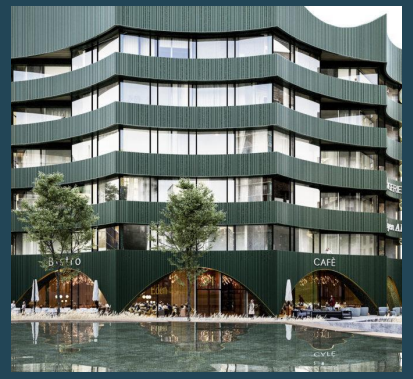

Architecture

Film

Fashion

Design

Co-funded by
the European Union

Project structure

The RE:CREATE project accelerates innovation by uniquely combining practical innovation, research knowledge and strategic coordination. It builds on existing design/production processes with visualization as the common denominator, systematically connecting established actors, new technology and future skills needs.

COORDINATION & COMMUNICATION

INFORMATION & LEARNING

LAB & CONCEPTUAL PROTOTYPE DEVELOPMENT

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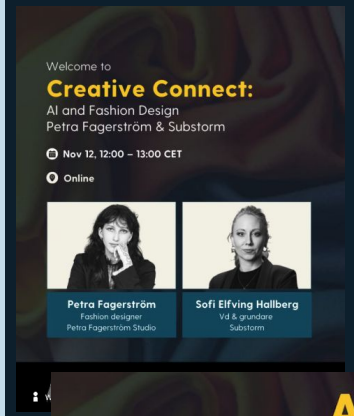
Activities & Outreach

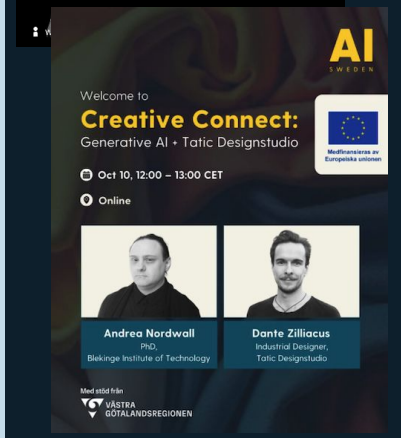
Activities

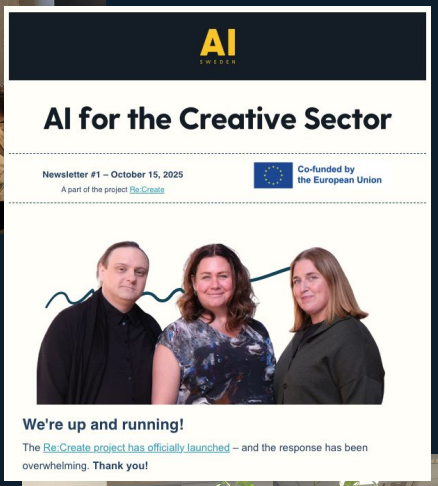
- **Webinars:** 3 conducted webinars focusing on fashion, film, and design.
- **Seminars:** 4 Industry Seminar.
- **Workshops:** 2 conducted workshops.
- **Communication:** 3 newsletters distributed to the network.

Quantitative Results

- **Participation:** 400 registrations for project activities between September and December 2025, doubling the initial estimate of 200.
- **Digital Reach:** Over 353 views of the webinars on YouTube. Over 15 000 views on LinkedIn.
- **Attendance:** There is high attendance and engagement for these new ways of working.







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Generative AI: A Definition

Generative AI is an AI system that aims to produce information similar to what it has been trained on.

The output is variable – the same input might not produce consistent outputs.

Weisz, J. D., He, J., Muller, M., Hoefer, G., Miles, R., & Geyer, W. (2024). Design Principles for Generative AI Applications. *Proceedings of the CHI Conference on Human Factors in Computing Systems*, 1–22. https://doi.org/10.1145/3613904.3642466

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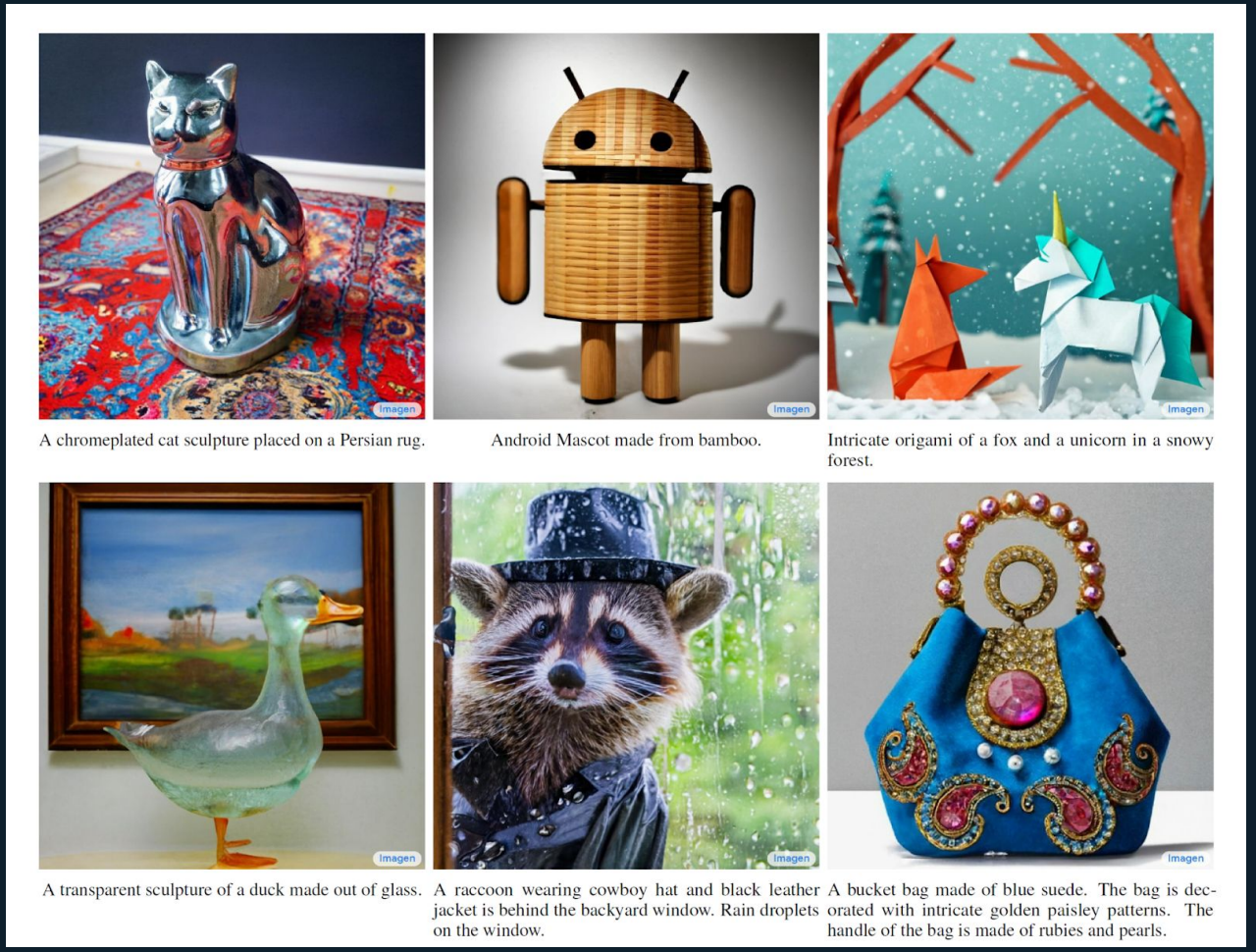
Generative AI

A typical generative AI system produces media artifacts, such as images.

Example output from a diffusion text-to-image model.

Saharia, C., Chan, W., Saxena, S., Li, L., Whang, J., Denton, E., Ghasemipour, S. K. S., Ayan, B. K., Mahdavi, S. S., Lopes, R. G., Salimans, T., Ho, J., Fleet, D. J., & Norouzi, M. (2022). *Photorealistic Text-to-Image Diffusion Models with Deep Language Understanding.*



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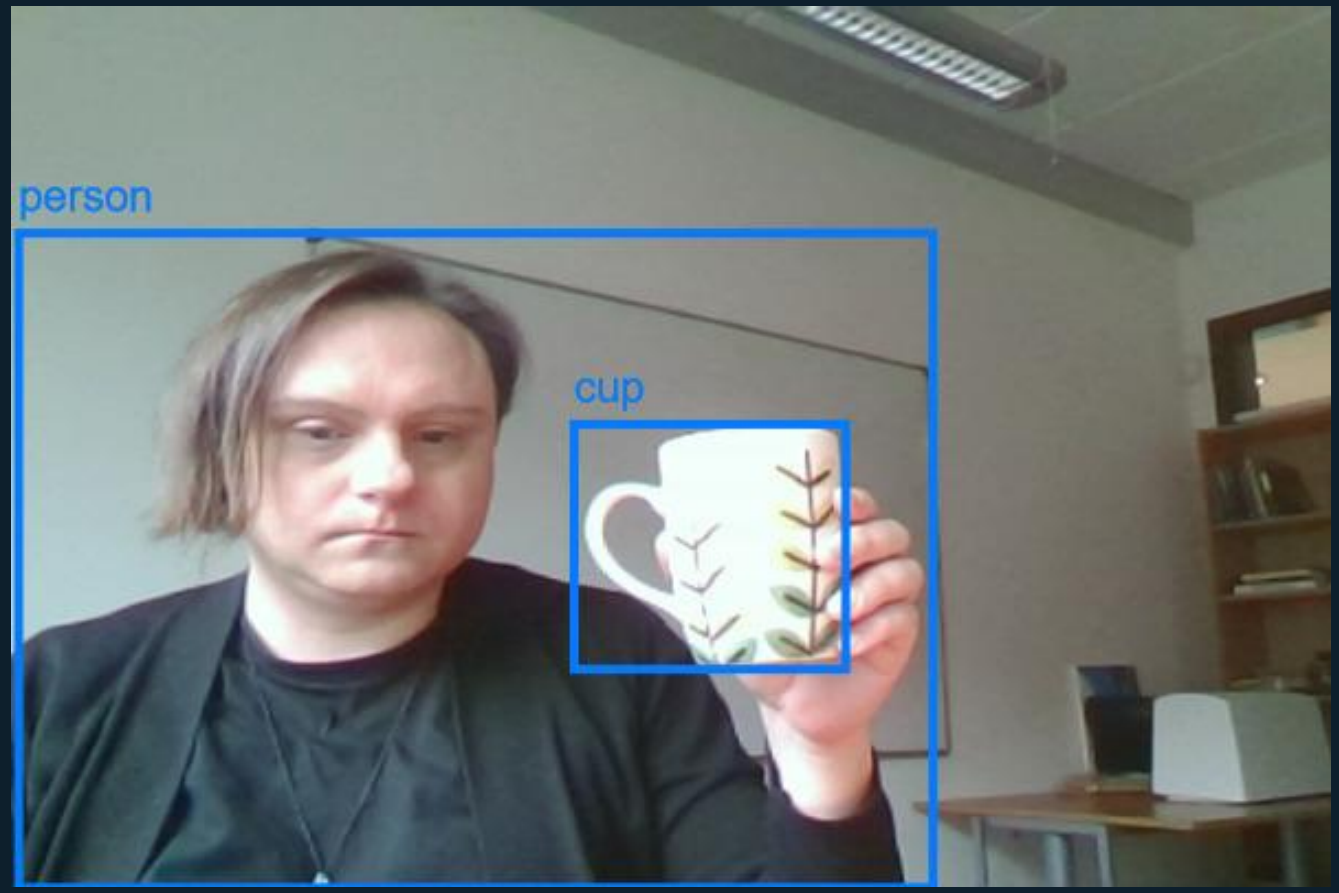
Discriminitive AI

A typical generative AI system produces media artifacts, such as images.

Example output from a diffusion text-to-image model.

Saharia, C., Chan, W., Saxena, S., Li, L., Whang, J., Denton, E., Ghasemipour, S. K. S., Ayan, B. K., Mahdavi, S. S., Lopes, R. G., Salimans, T., Ho, J., Fleet, D. J., & Norouzi, M. (2022). Photorealistic Text-to-Image Diffusion Models with Deep Language Understanding.



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Modalities

Generative AI models are typically described by what modalities (media artifacts) they produce (output), and what modalities are used as input to control output.

Examples of media modalities

- Text (e.g. “prompt” when used as input)
- Image
- Video
- Audio
- Mesh
- Pointcloud
- ...

Typical model modality input-output pairs are “text-to-image”, “text-to-video”, “text-to-text”, “image-to-image” etc.

A multi-modal model can accept multiple media modalities as input or output.

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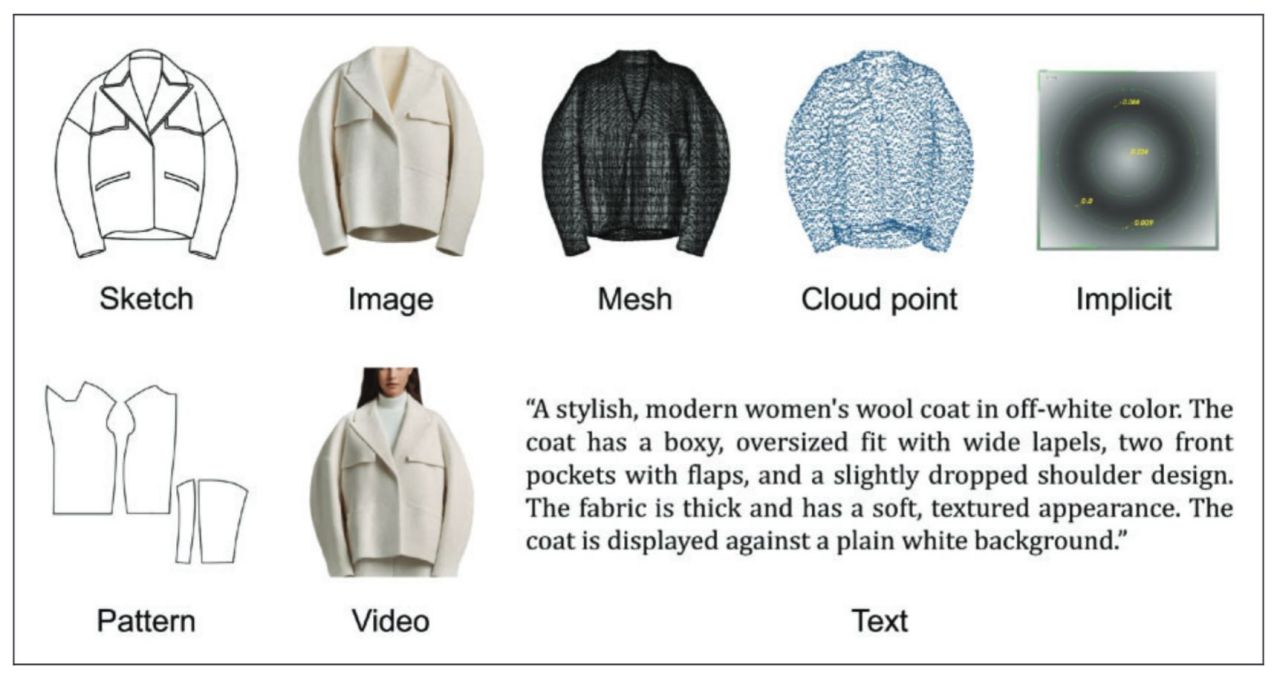
Garment Modalities

Different modal representations of a garment.



Sun, Y., Hao, Z., Wang, Z., Jin, J., Ye, Q., & Lyu, Y. (2025). Deep learning for 3D garment generation: A review. *Textile Research Journal, 95(23–24), 2882–2908.* https://doi.org/10.1177/00405175251335188

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Design Visualization

Visualizing garments as images, video or 3D meshes to understand design possibilities.

Product Visualization

Visualizing products, for designers and customers, with a focus on visual aspects.

Production

Functional garment patterns.

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Applications

- Garment Pattern Generation (for design visualization)
- Garment Pattern Generation (for production)
- Generative Garment Customization (based on 3D scans, images etc.)
- Non-Professional Pattern Generation
- 3D Garments for Marketing (Image-to-Mesh)

- Customer virtual try-on/virtual fitting (VTON, Image-to-Image, Image-to-3D, Body Scan)
- XR Experiences
- Automation for e-commerce

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Need-finding & Concept Exploration (What & Why)

- What needs do you have in your organisation?
  What use case ideas do you have, based on your needs?

- Write down your ideas for use cases.

  If you like, you can use the following format:

  Brief: "Suggest an AI tool to assist with creating …… in the process of …… "

- How could using AI benefit you with your use cases?
- What drawbacks and limitations do you see with using AI?

Concept Feasibility (How & Who)

- What AI methods could be used for your use cases?
- What collaboration would you need to realize your ideas?

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Thank you!

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