

Daylight and Dynamic Solar Shadings



Introduction



So where do we go?

The Solution

Setting Goals, Looking for
... what do we
... light
... (what's) behind
... what do we want?



Adjusted



How much do we need
light to work?
What do we want?



Mid-City
Mid-City
Mid-City

Good Examples



Dynamic + local control



Showing the way



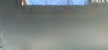
Why not...

Static or Manual?

But what about all the ones we already have?



new buildings are easy



What about the ones we need to find the way to go to? Or to go to?



Daylight and



Dynamic Solar Shadings



somfy®

SVENSKA
SOLSKYDDSS
FÖRBUNDET

EUROPEAN SOLAR SHADING ORGANIZATION
Energy Savings & Comfort

Anders Hall

People Ages Tasks Needs



Introduction



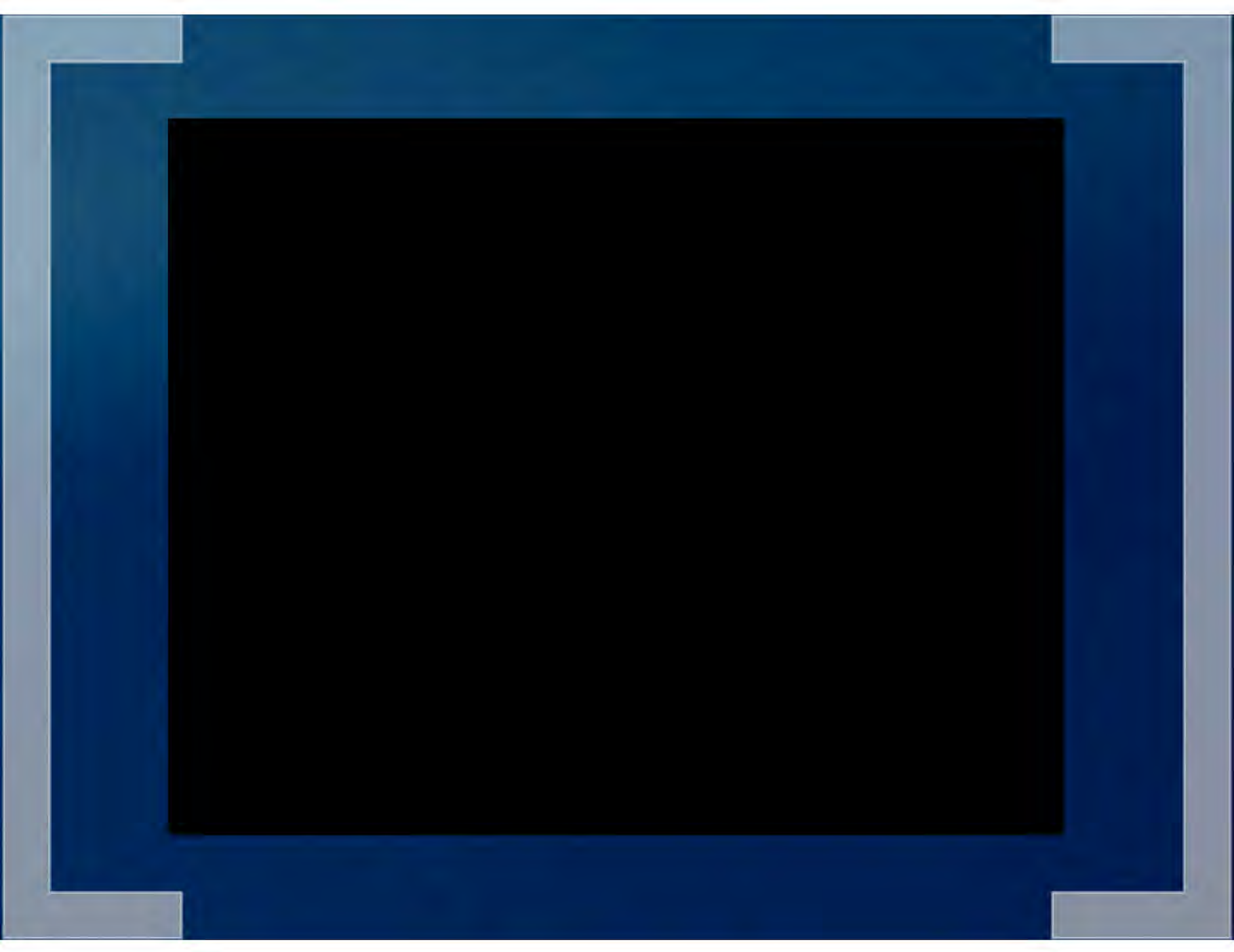
1:3:10

for visual comfort

A composite image showing two views of an office interior. The top view shows a computer monitor displaying a 1:3:10 ratio. The bottom view shows a similar office interior with a computer monitor displaying a 1:3:10 ratio.

North versus South...

A circular graphic containing three elements: a diagram of Earth's axial tilt at the top, a photograph of a classical building facade at the bottom left, and a photograph of a window with shutters at the bottom right.



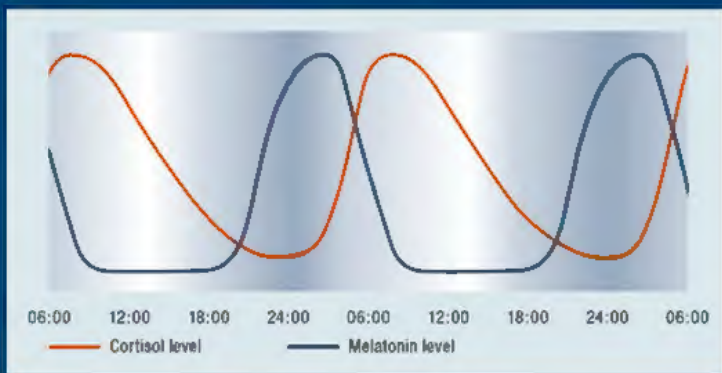
People

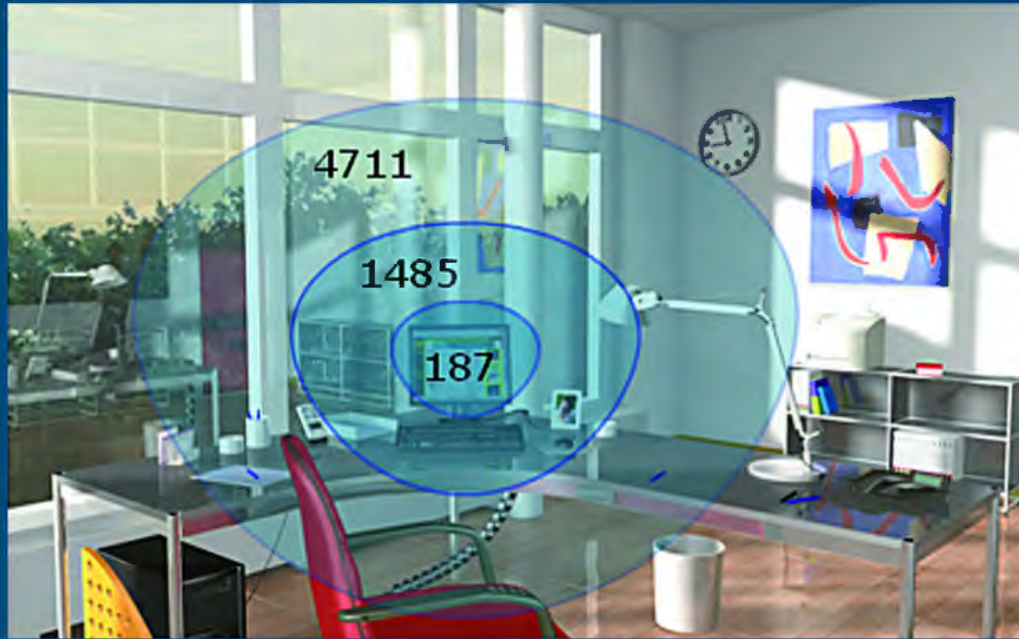
Ages

Tasks

Needs





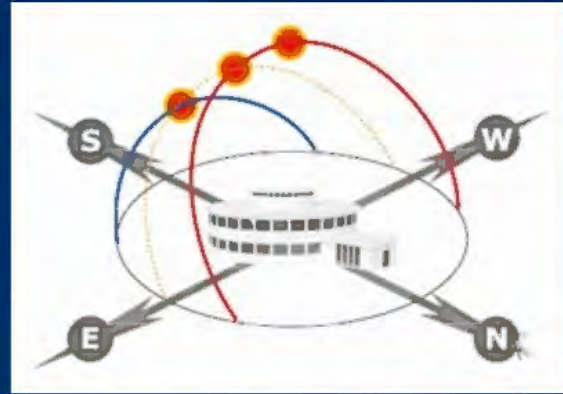


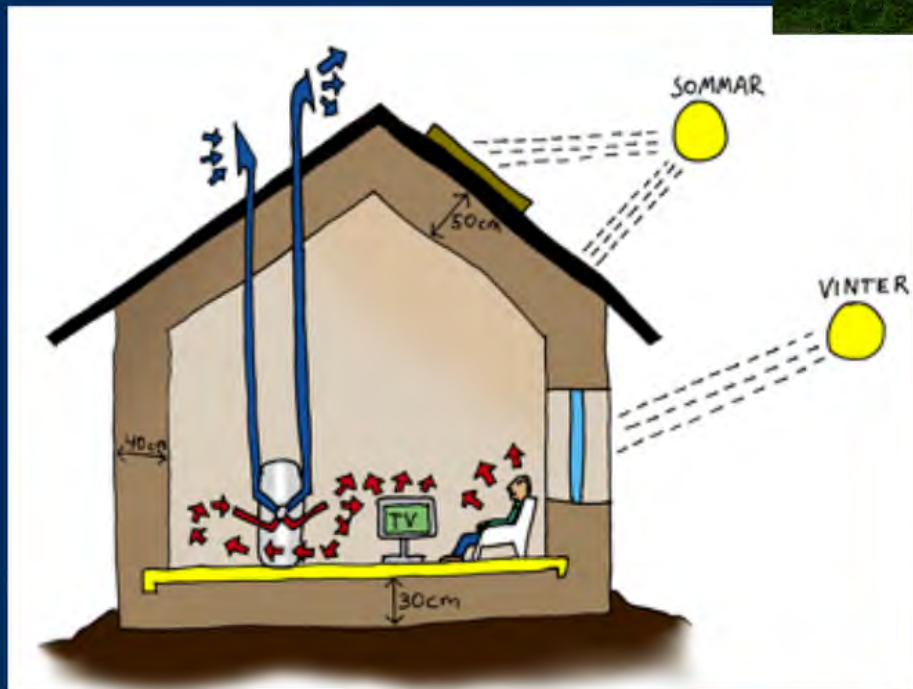
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for visual
comfort



North versus South...







So where do
we go?

Why not...

Static or Manual?



The weather changes all the time... often within the same day

Had to add Interior shades



Low sun i March...



Extremely costly Ceramic slat construction...

No matter the weather...



Stays the same >90% of the time

But what about all the ones we already have?



New buildings are easy



This is where we need to find the missing 11% to the 20-20 target!



7 DAY FORECAST

LAMBTON - KENT - ESSEX

FRI	SAT	SUN	MON	TUE	WED	THU
						
Periods of Snow 2 cm	Snow	Sunny	Rain or Snow	Rain or Snow 60%	Flurries 30%	Cloudy



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Showing the way



An aerial photograph of London, England, featuring the Shard skyscraper as the central focus. The river Thames flows through the city, and various other buildings and green spaces are visible in the surrounding urban landscape.

solar gain is calculated by its “G value”, which measures the fraction of radiation allowed in. The average double-glazed office has a G value of about 0.34. The Shard’s is lower, at 0.12, meaning it lets in less radiation and so needs less airconditioning. Triple-glazed windows are about 50% more expensive than normal ones.

Jack Carter at Renzo Piano Building Workshop said: “The key thing is the intelligent system [that operates the blinds]. If the building didn’t have that active element, it wouldn’t work.”



THE SUNDAY TIMES

The logo for The Sunday Times, featuring a royal coat of arms with a crown and two lions, positioned above the newspaper's name in a bold, serif font.



- Dynamic daylight factor
 - 2% of outside at all times
- g-value of 0,15
 - can not be achieved by glass alone
- 45 to 315 degrees

The only way to manage this is
- less coated glass + dynamic Solar shading

Good Examples



Before: Manual



After: Automated



Dynamic + local control



Dynamic + local control



Before: Manual



After: Automated



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C

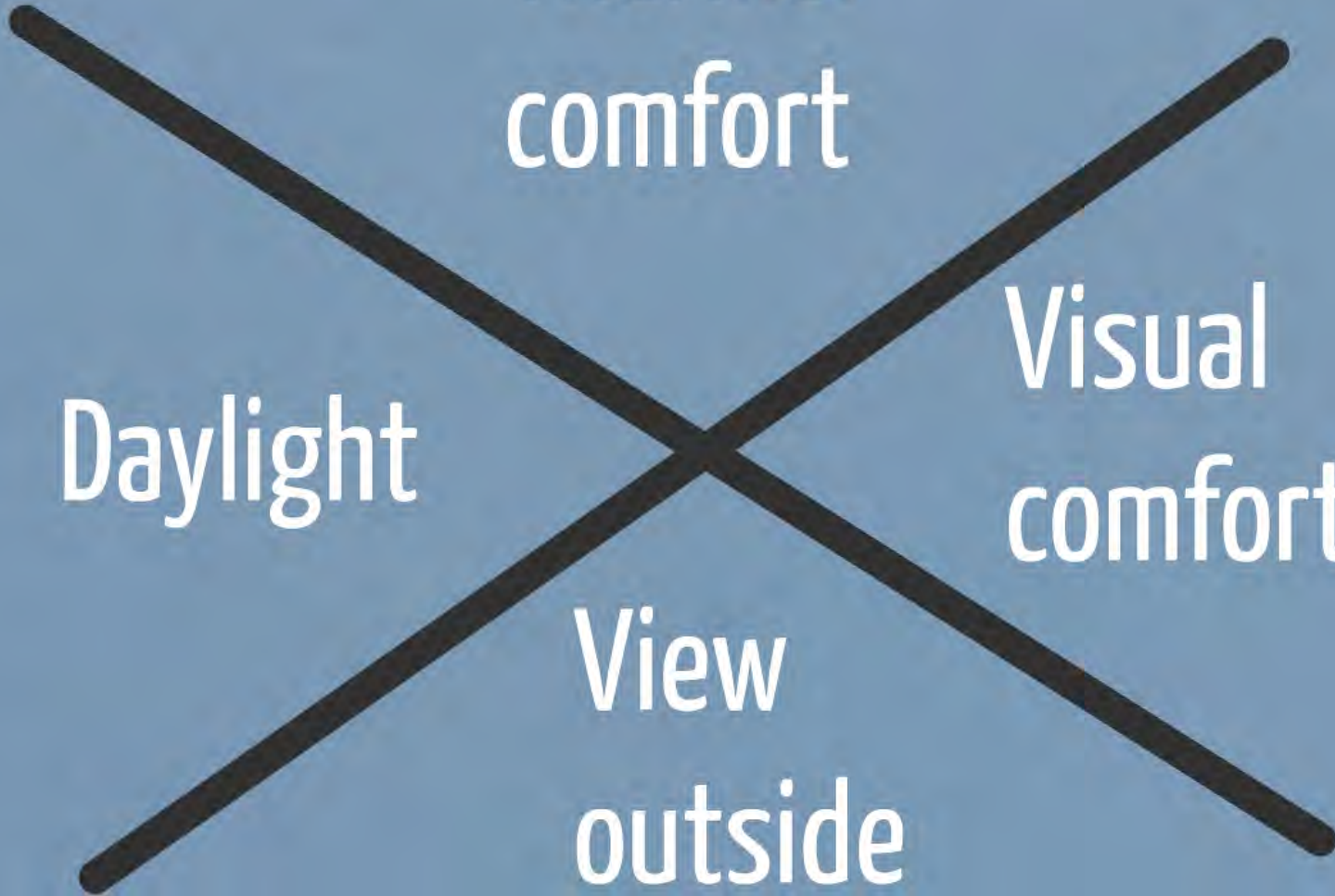
Conflict of interests

Thermal
comfort

Daylight

Visual
comfort

View
outside





One of Swedens most energy efficient offices today!

No need for artificial light in neither situations!



Glass only



Mid Grey Interior Screen



Extra daylight

No need



Adjusted

The Solution

Combining dynamic solutions for

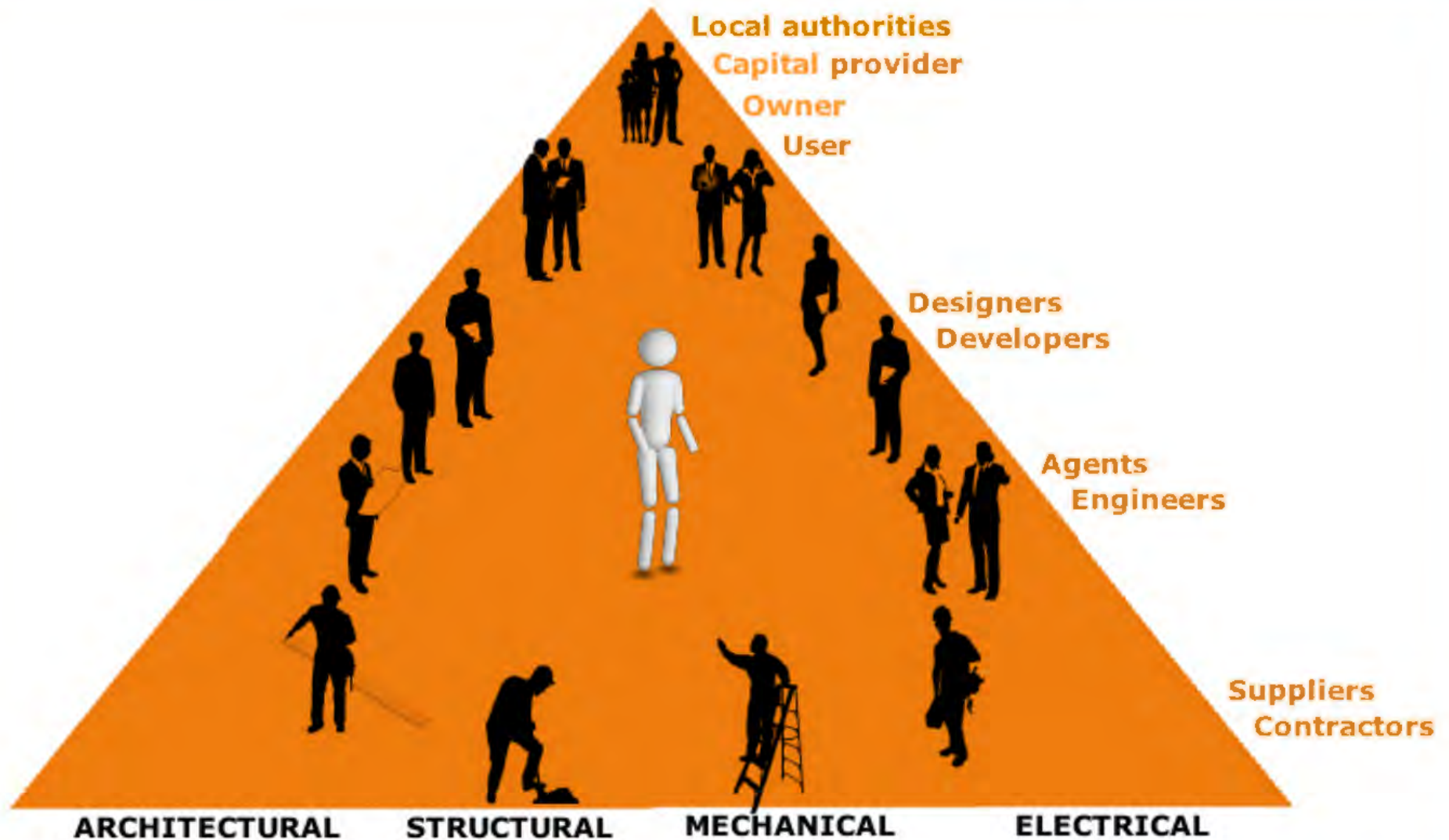
- Solar shading
- Light
- Ventilation (cooling)

is the Key to success!

Holistic approach



Holistic approach



Combining dynamic solutions for

- Solar shading
- Light
- Ventilation (cooling)

is the Key to success!

Welcome to add me on LinkedIn!



The image shows a screenshot of a LinkedIn profile for Anders Hall. The profile includes a header with the LinkedIn logo and account type, a navigation bar with various options, and a main profile section with a photo, name, title, location, and work history. Below the profile section is an activity feed with a text input field and a recent connection announcement.

LinkedIn Account Type: Basic | Upgrade

Home Profile Contacts Groups Jobs Inbox Companies News More People

PRINCE2® Certification - Online course in project methodology. Now in Sw

Anders Hall
Business Development Manager Projects at Somfy Nordic AB
Gothenburg, Sweden | Building Materials

Current: European Solar Shading Organisation, Guest Speaker, Somfy Nordic AB
Previous: Galaxsystem AB, Hunter Douglas, Hall Collection AB
Education: IHM Gothenburg

Improve your profile Edit Profile 500+ connections

se.linkedin.com/pub/anders-hall/29/519/421/ Contact Info

ACTIVITY

Share an update...

Anders Hall is now connected to Markus Selin, Business Development at EQUA (in relation to B...)
2 hours ago

anders.hall@telia.com