Low & Zero Carbon Housing

Guidelines to Action.

Low and Zero Carbon Housing.
Day One
Key Points and Guide Lines to Action

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Tackling climate change requires a drastic reduction in emissions from the built environment.

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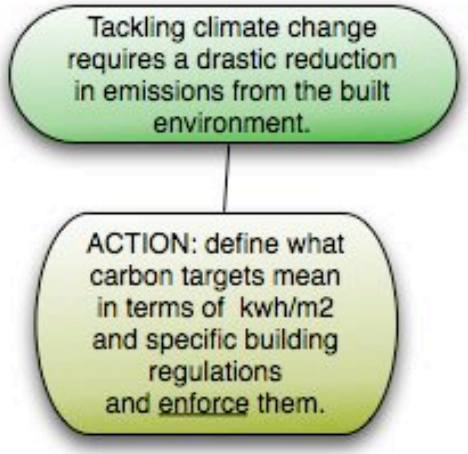

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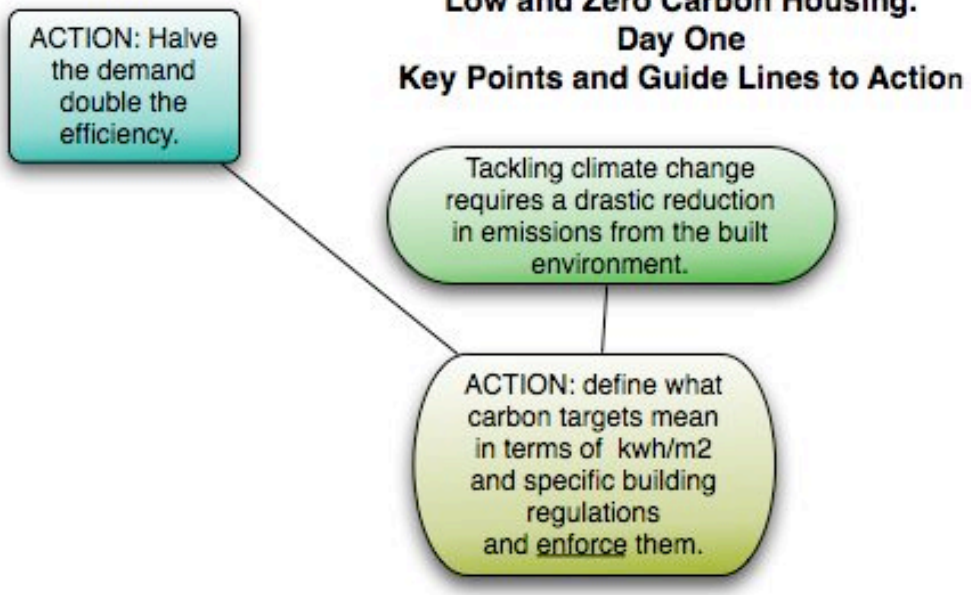

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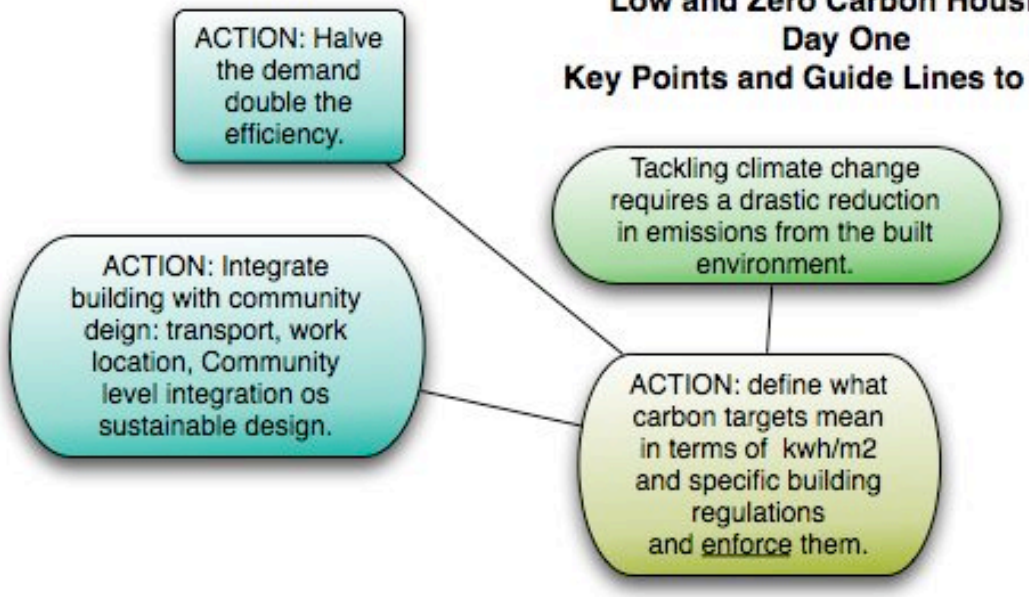

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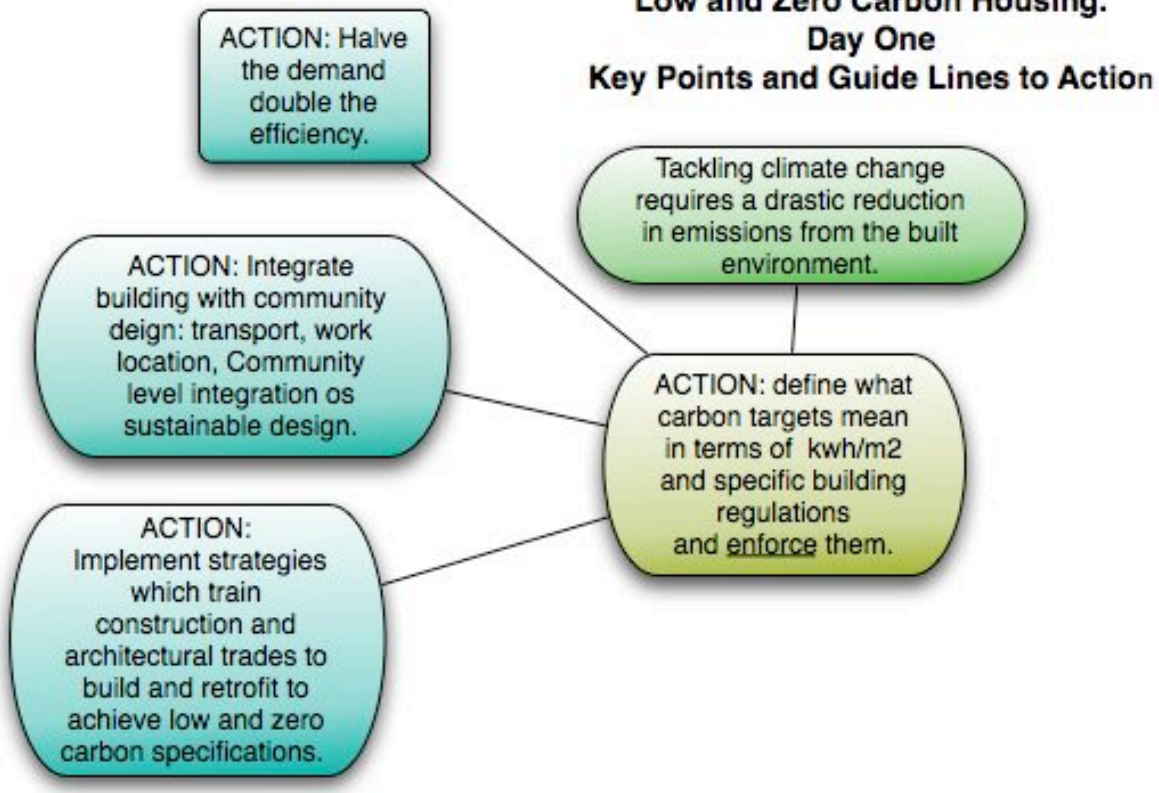

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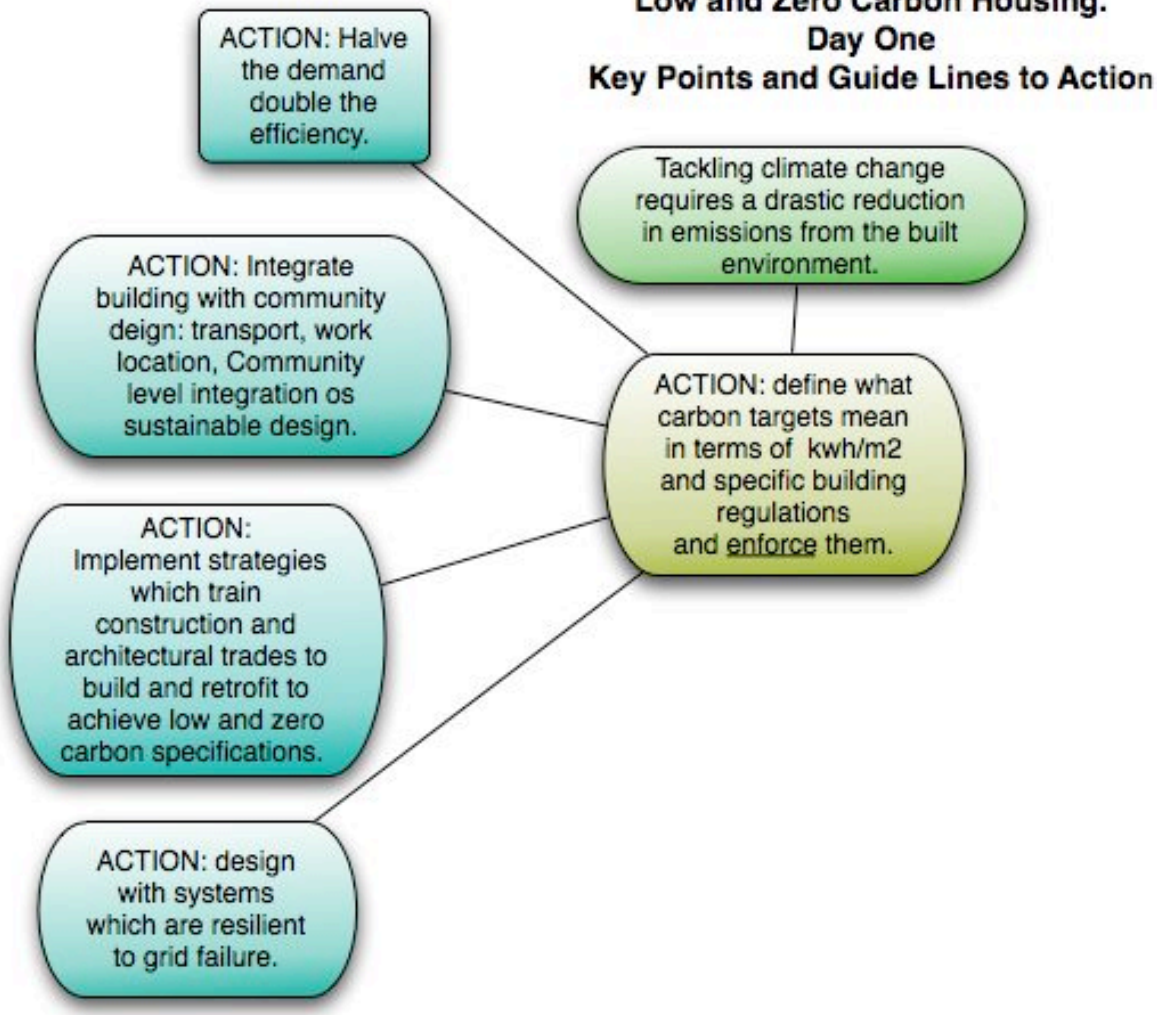

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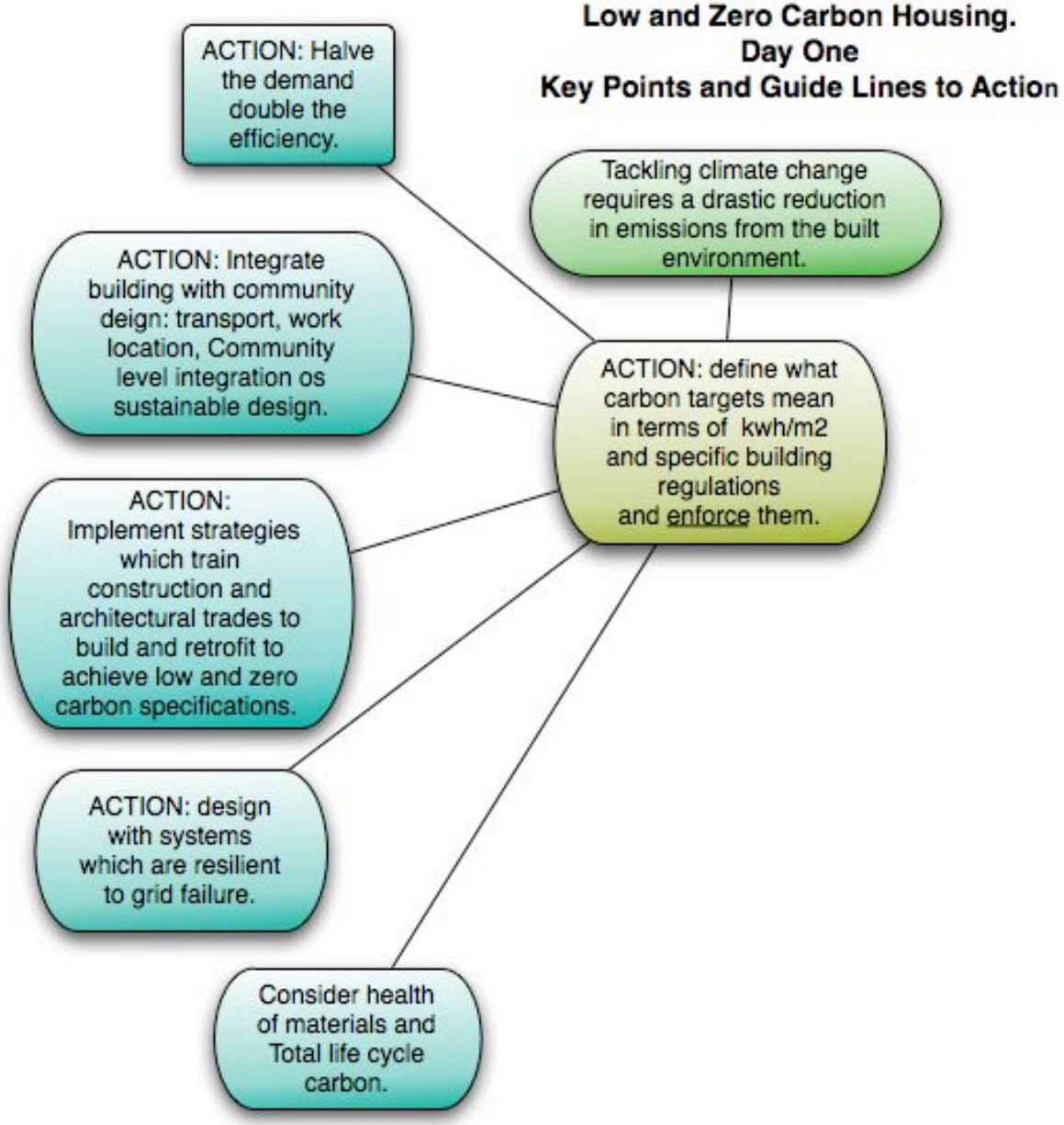

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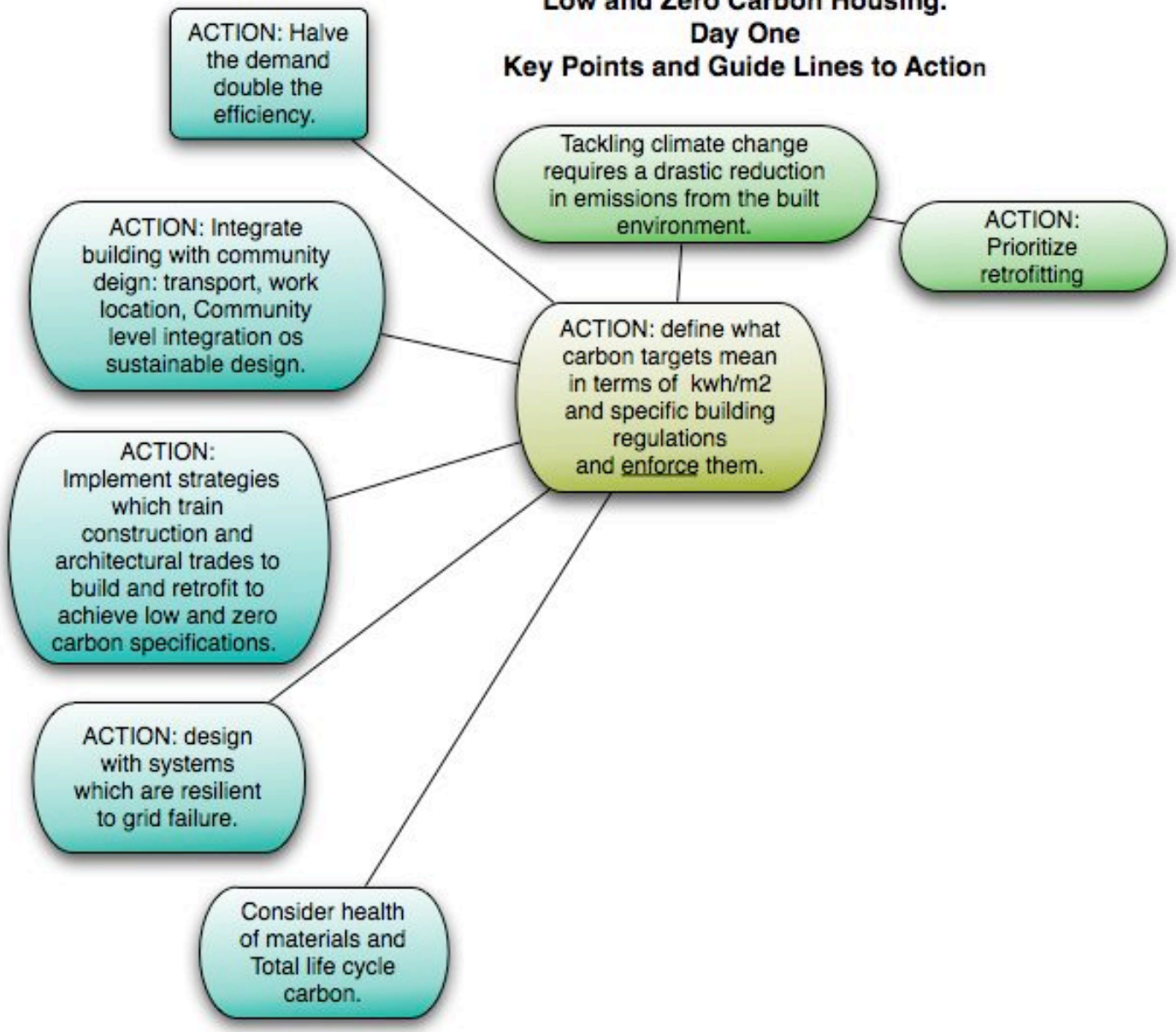

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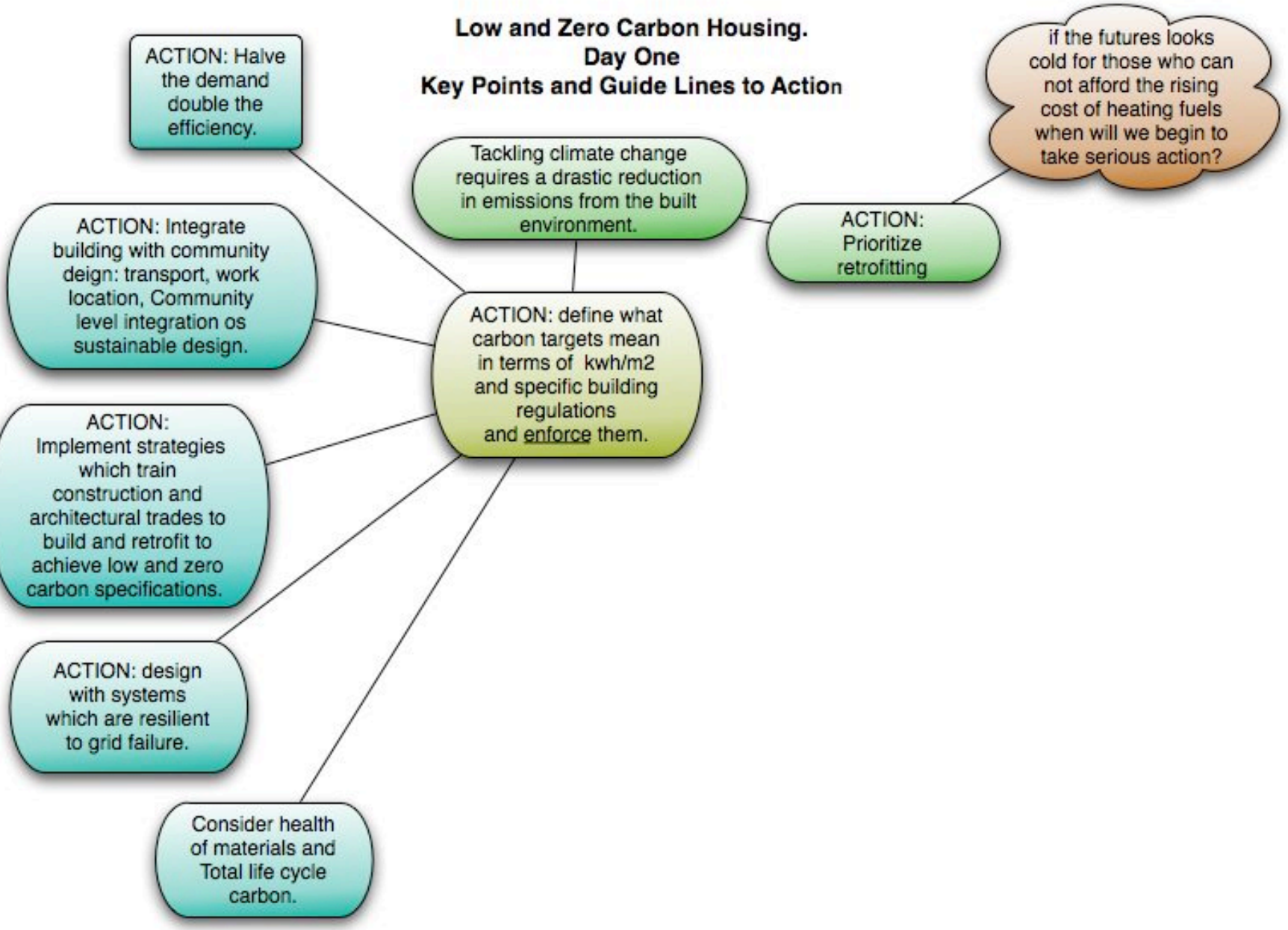

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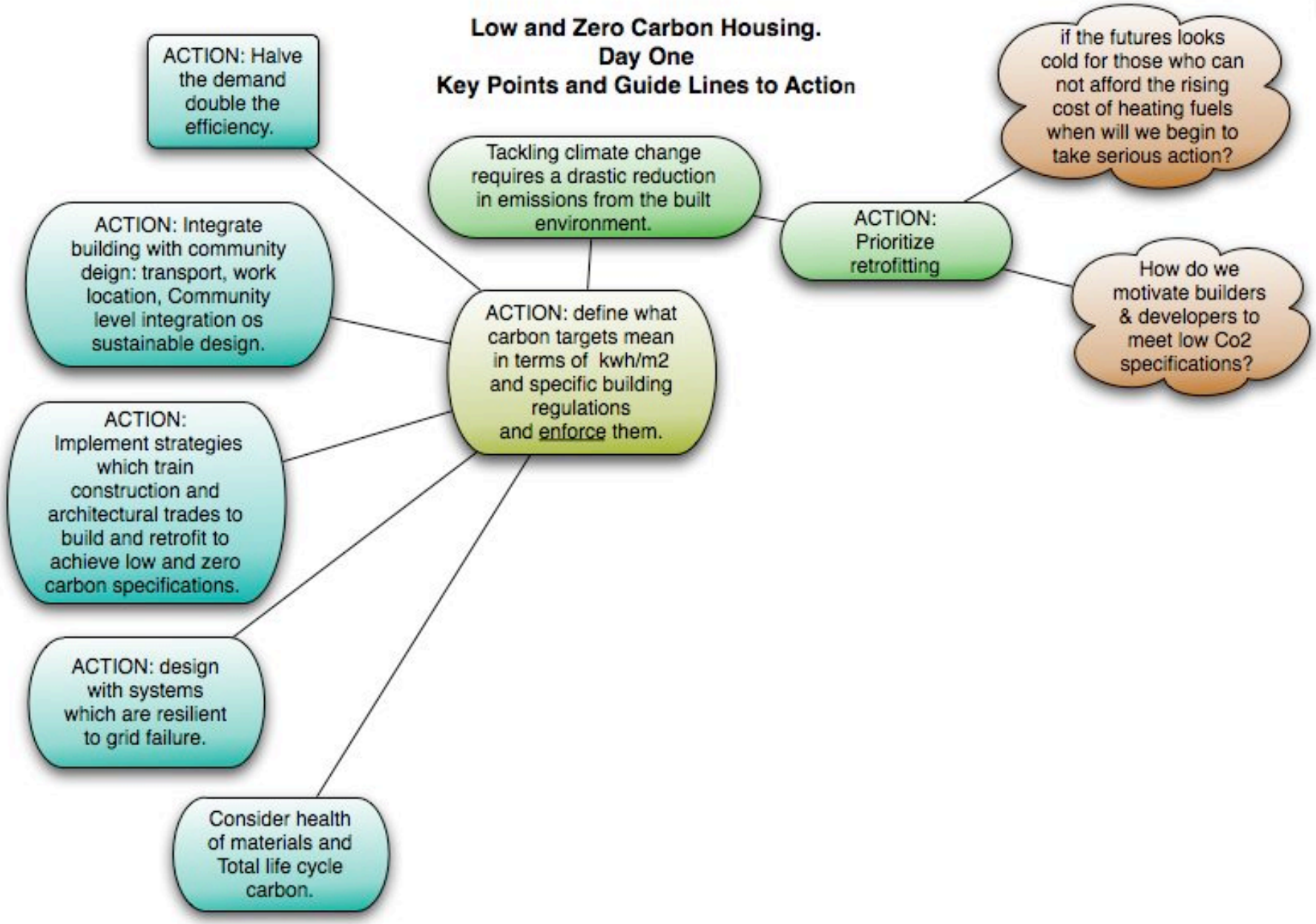

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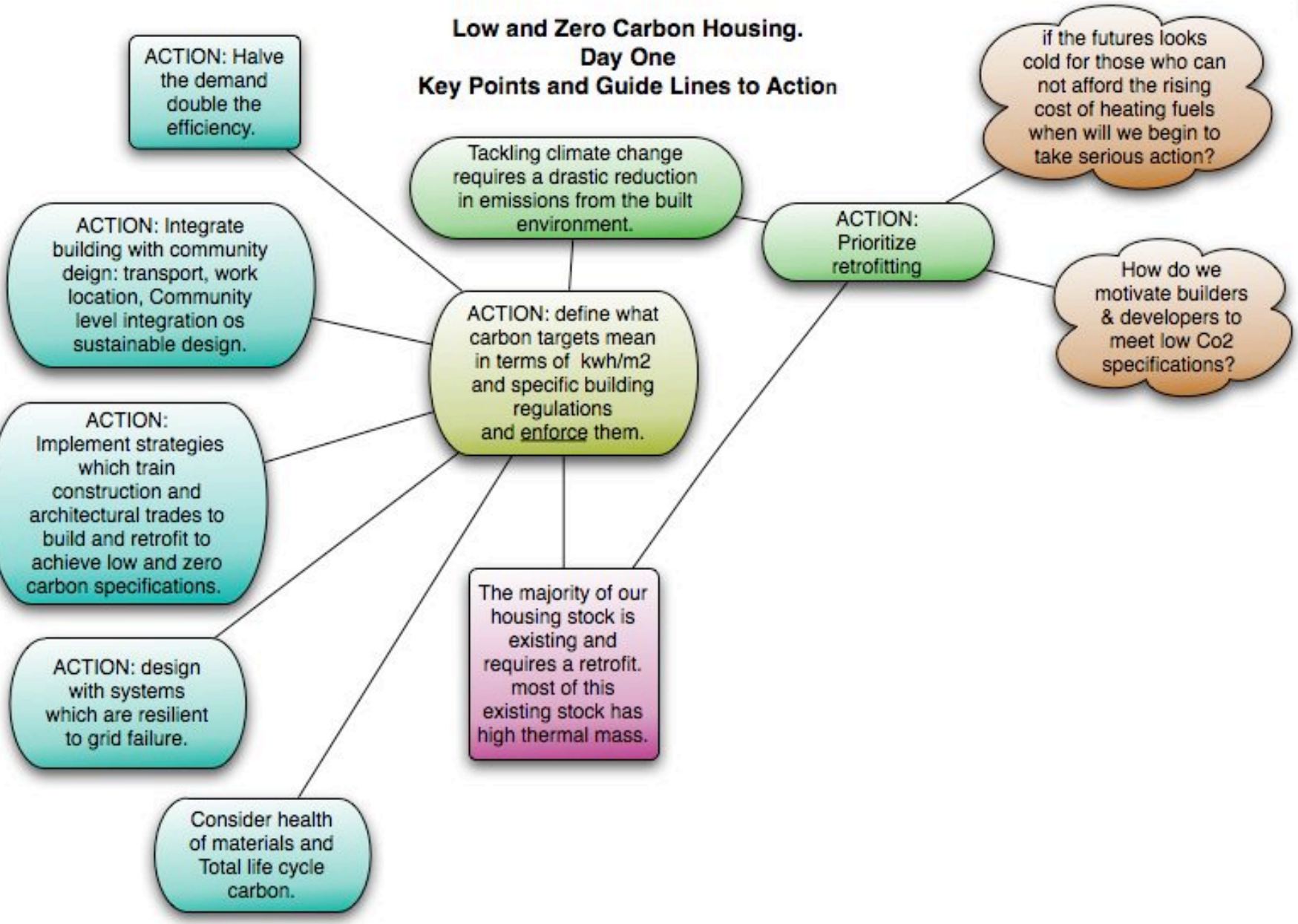

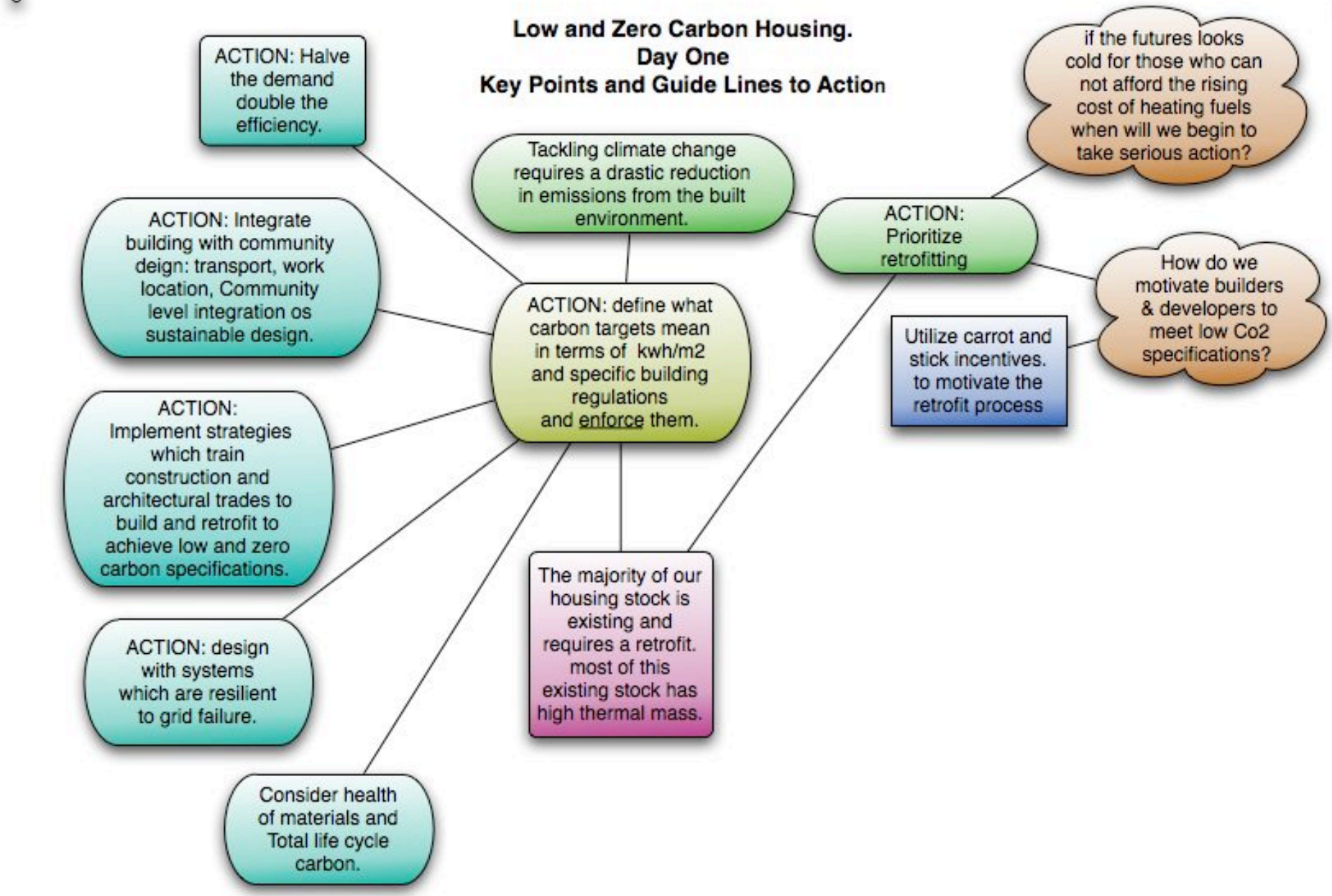
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ACTION: Halve the demand double the efficiency.
ACTION: Integrate building with community deign: transport, work location, Community level integration os sustainable design.
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ACTION: design with systems which are resilient to grid failure.
Consider health of materials and Total life cycle carbon.
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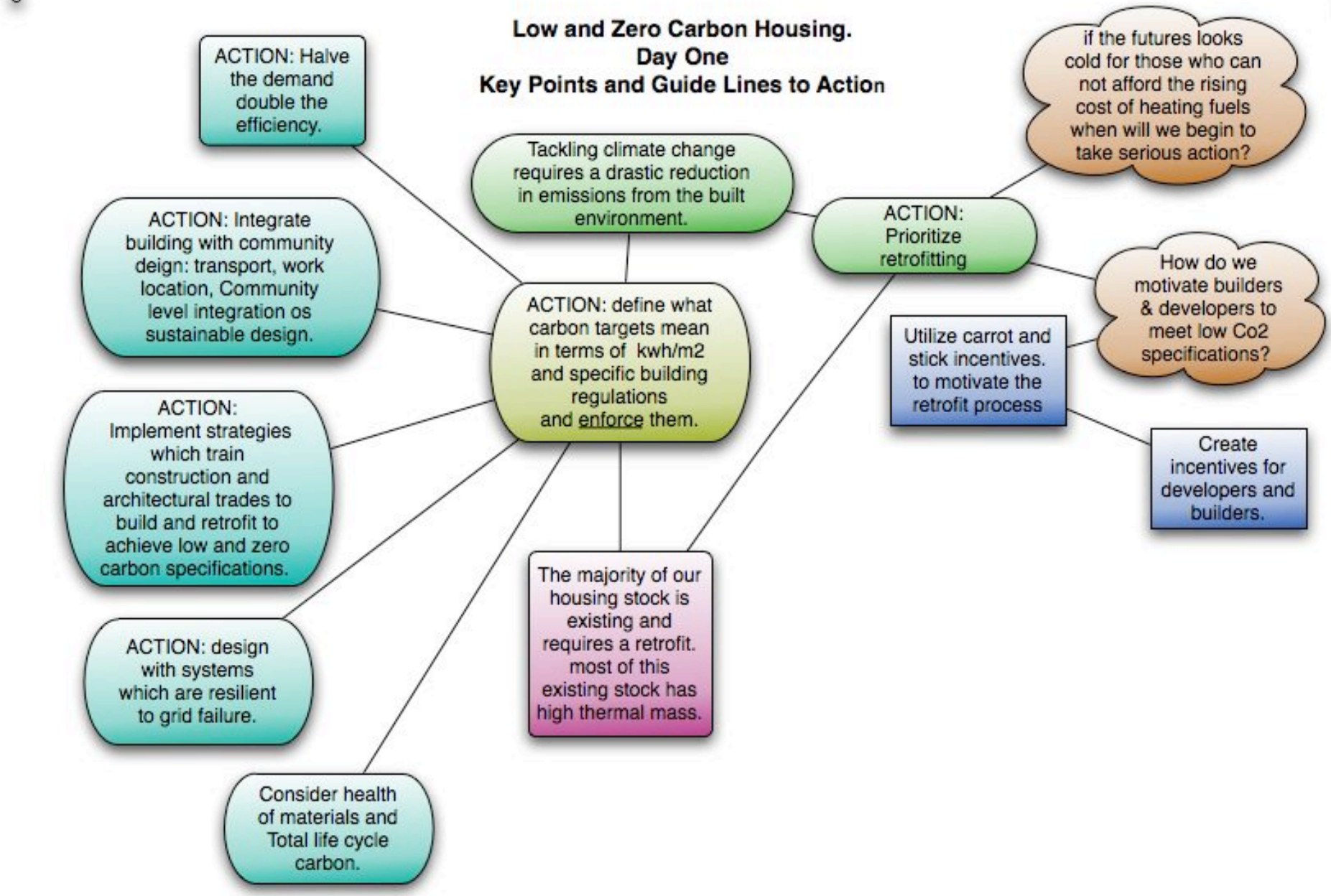
Utilize carrot and stick incentives. to motivate the retrofit process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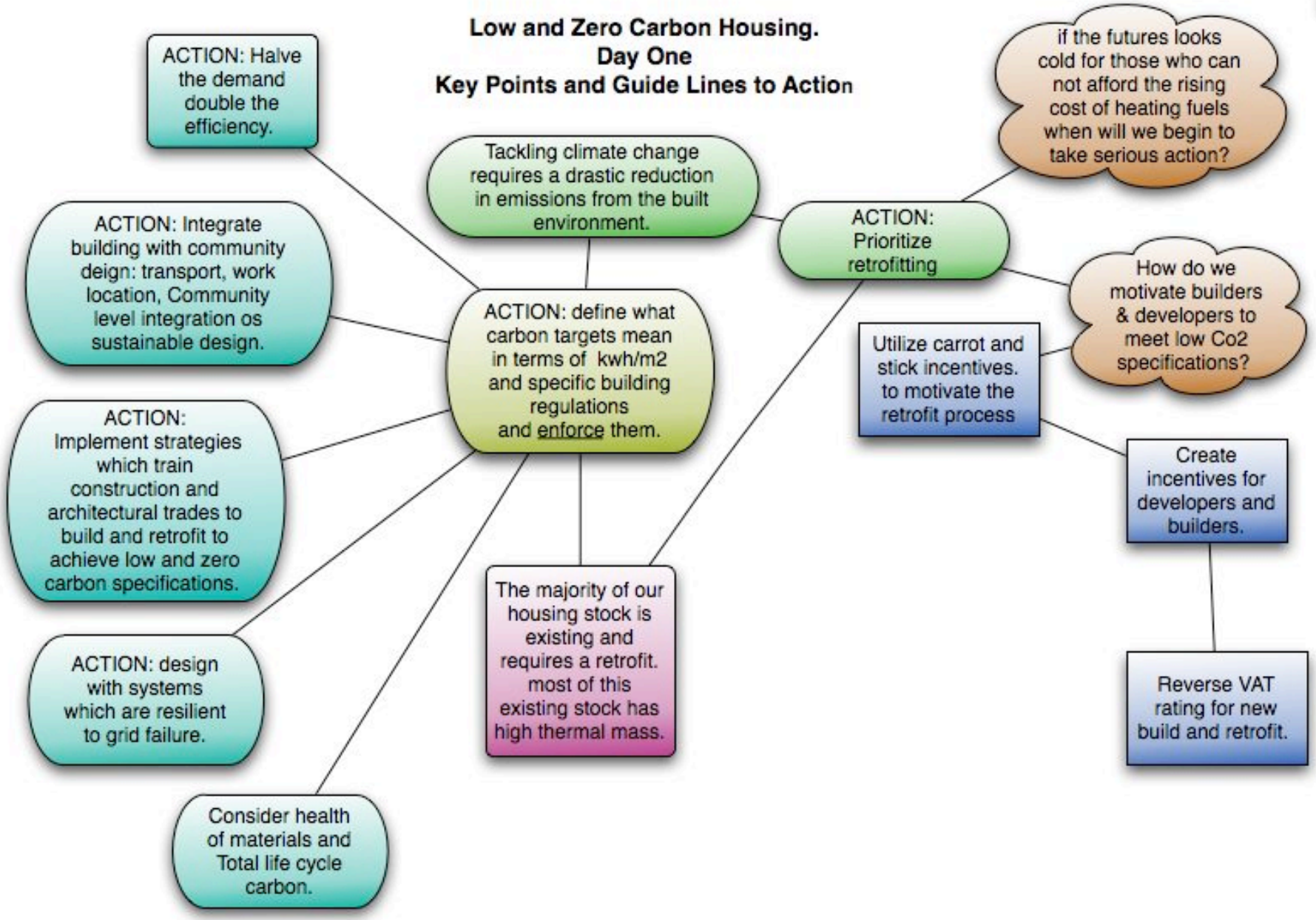

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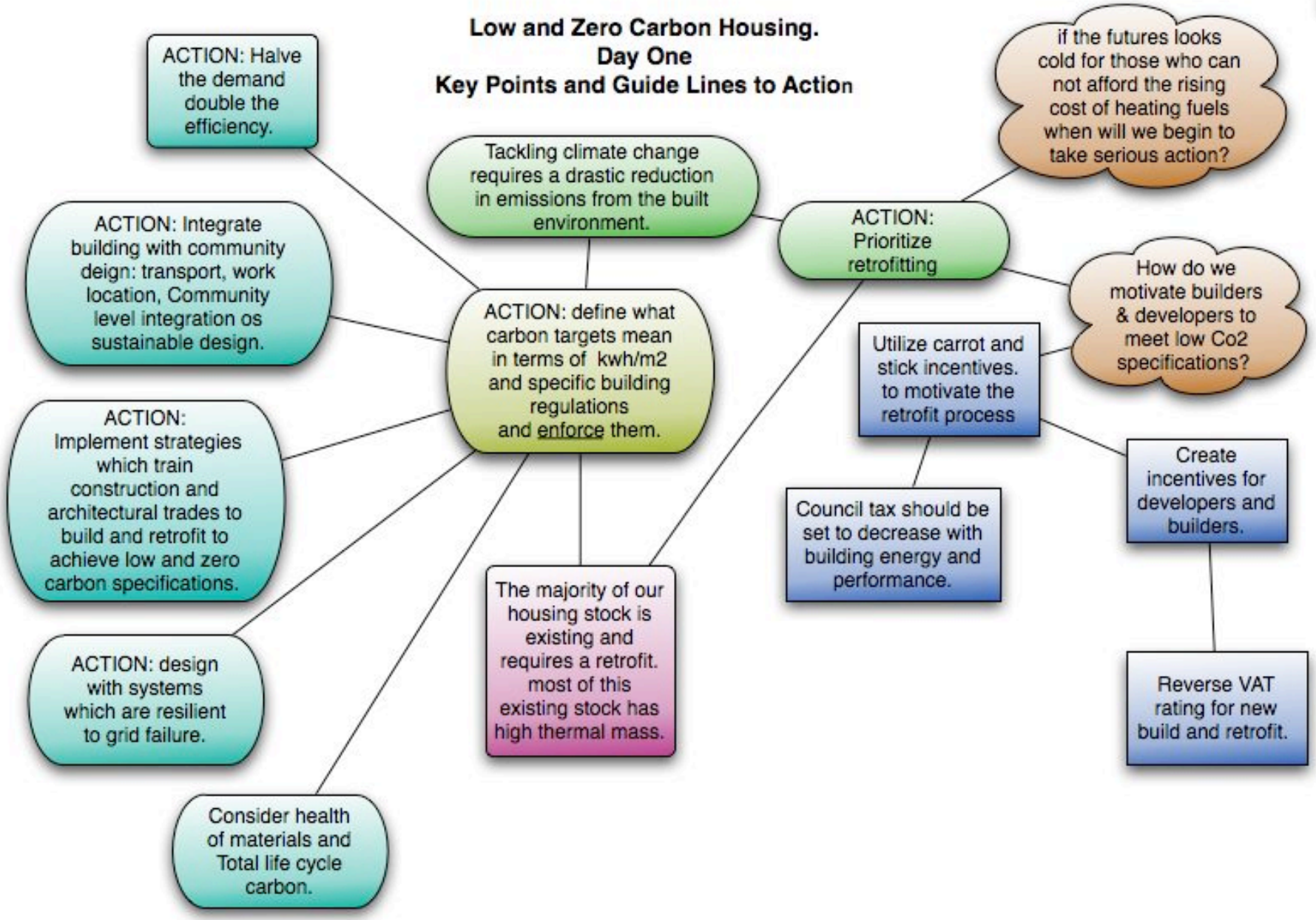

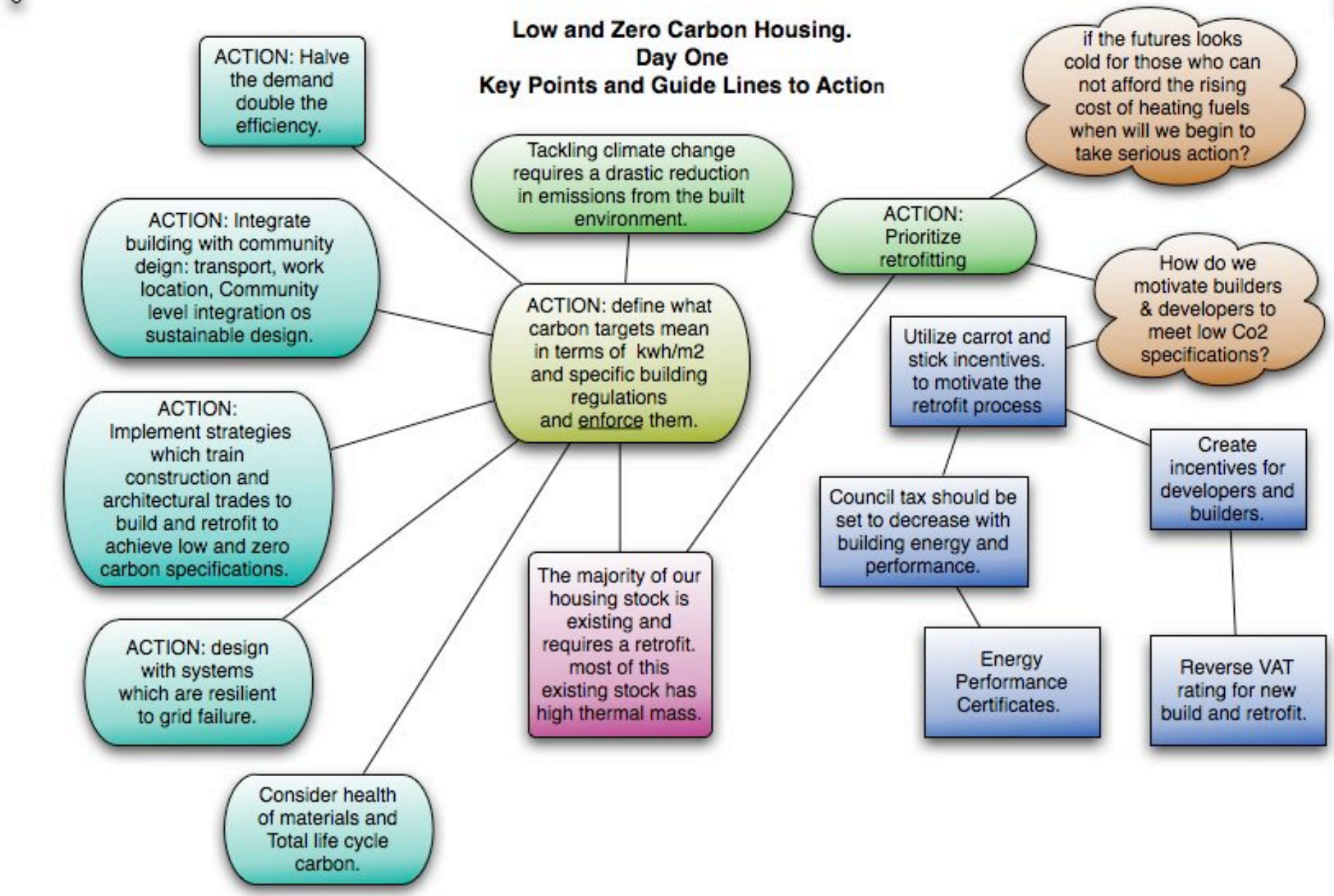
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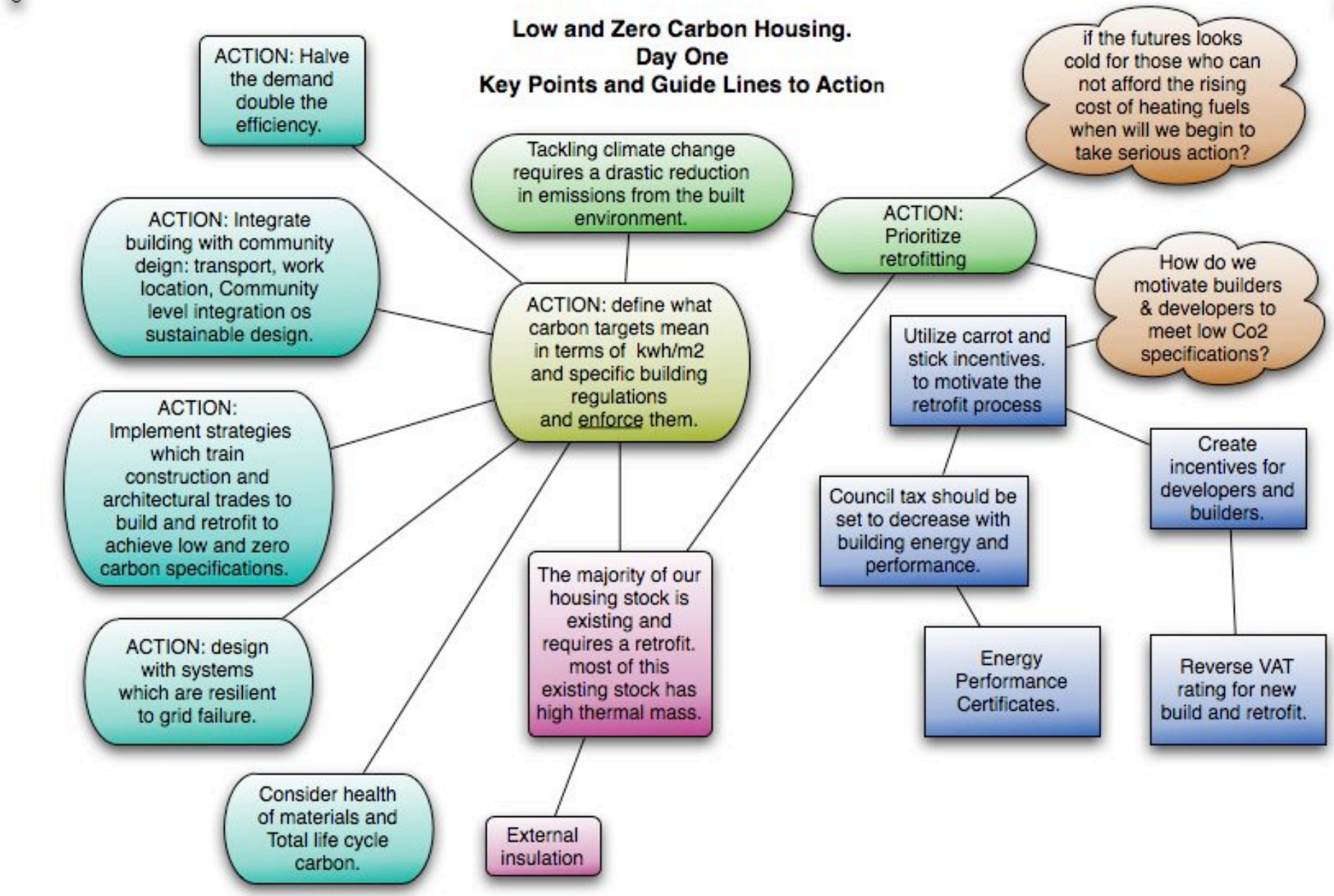
Energy Performance Certificates.
Reverse VAT rating for new build and retrofit.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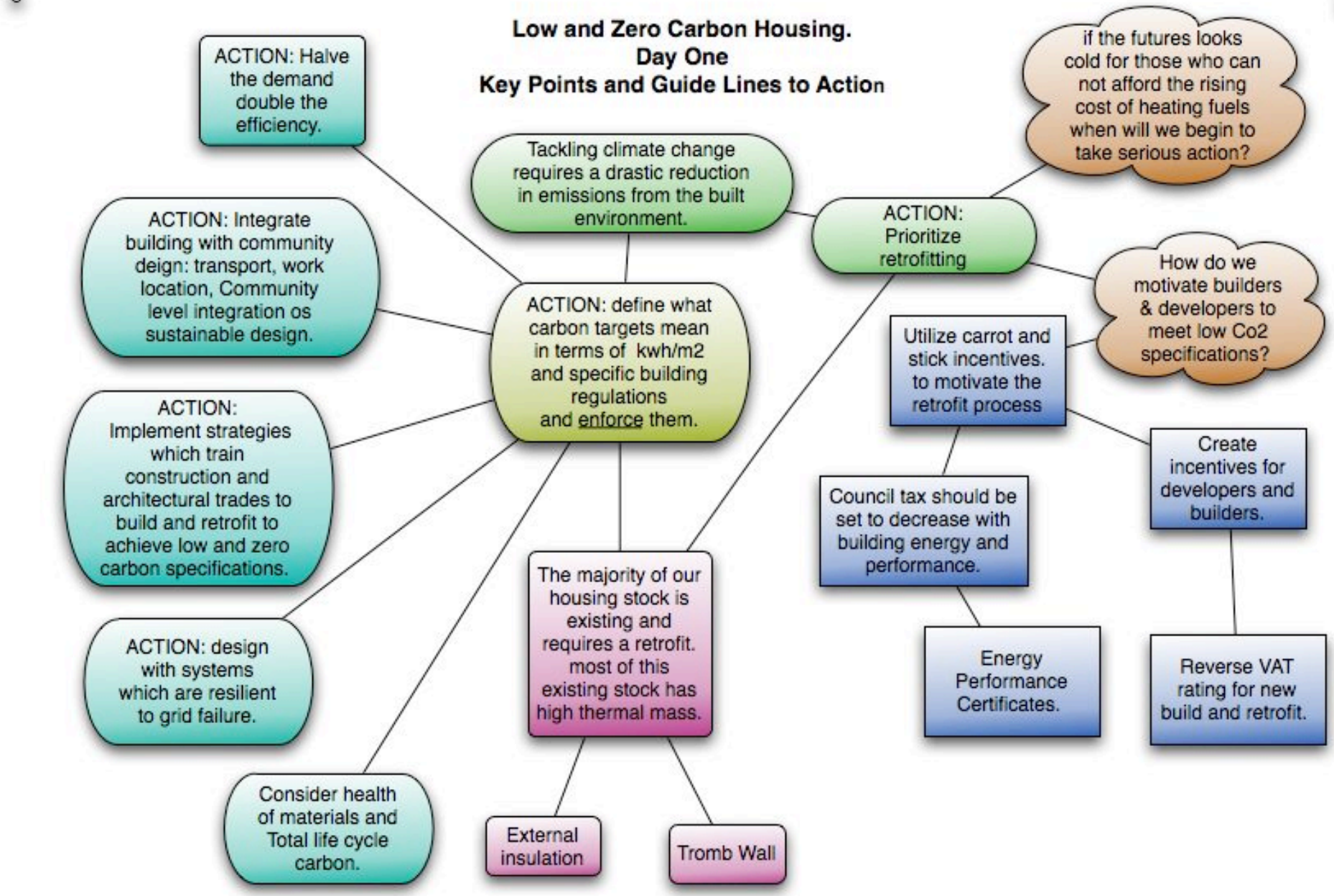
External insulation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External insulation
Tromb Wall

Low and Zero Carbon Housing.
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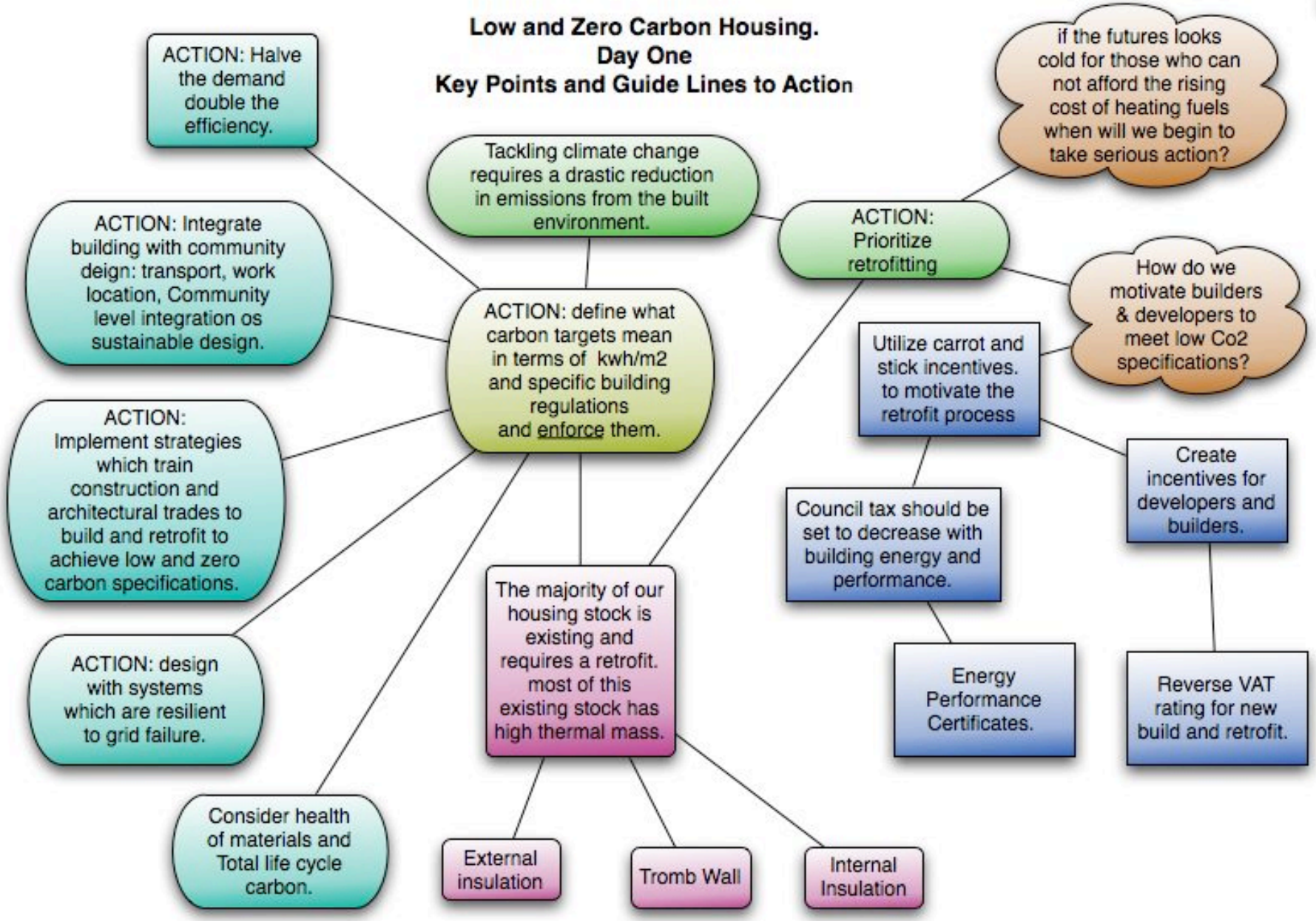

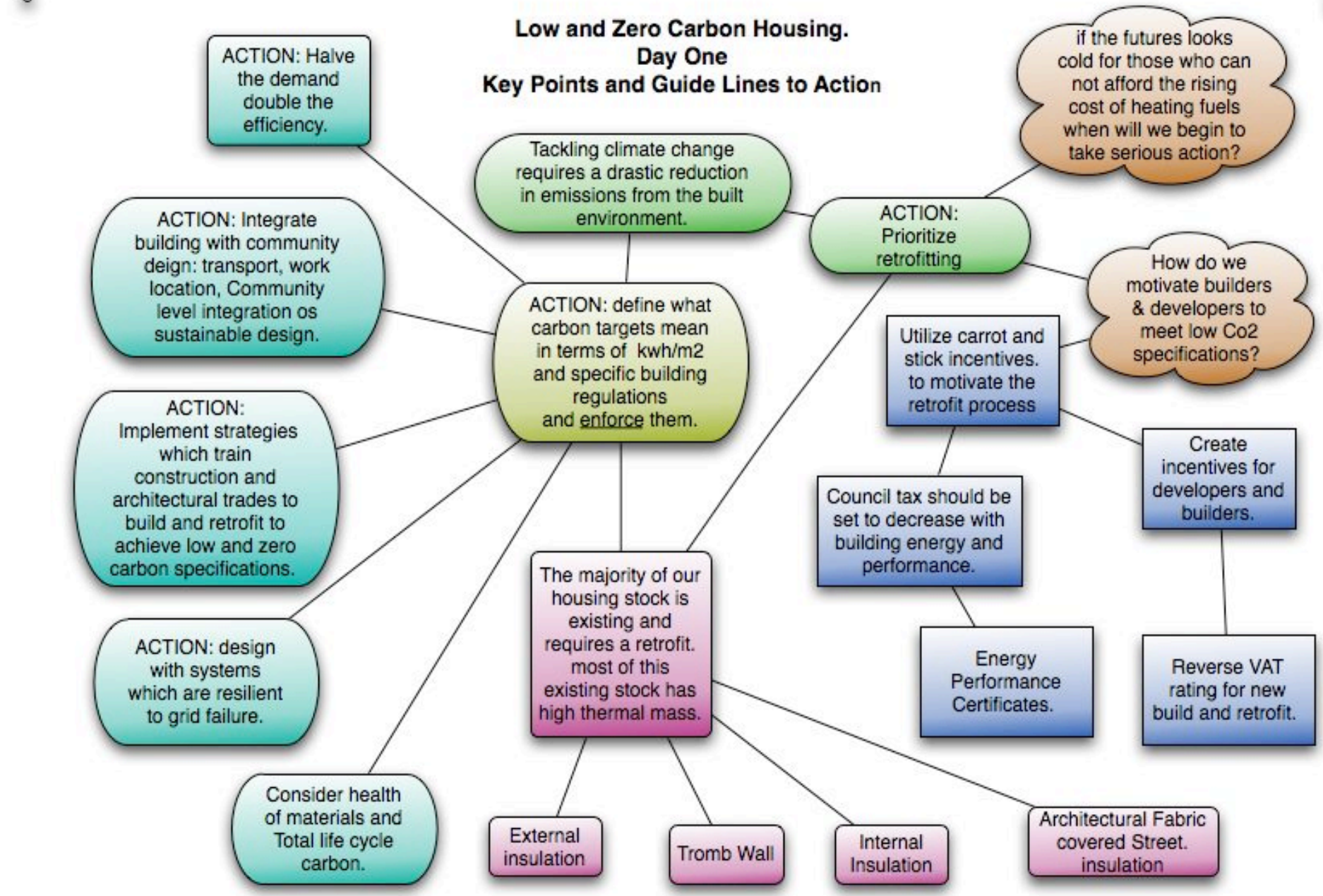

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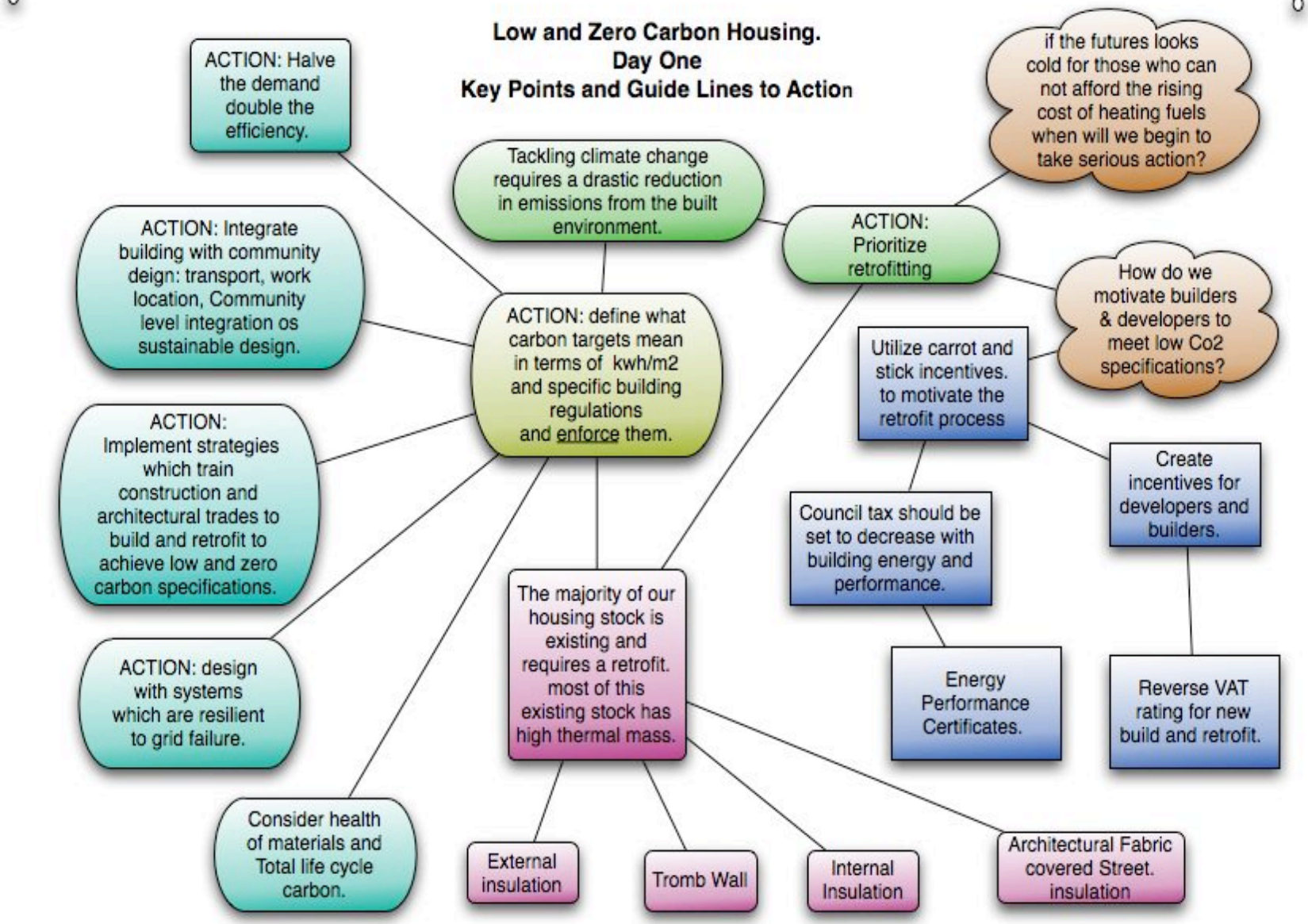
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External insulation
Tromb Wall
Internal Insulation
Architectural Fabric covered Street. insulation
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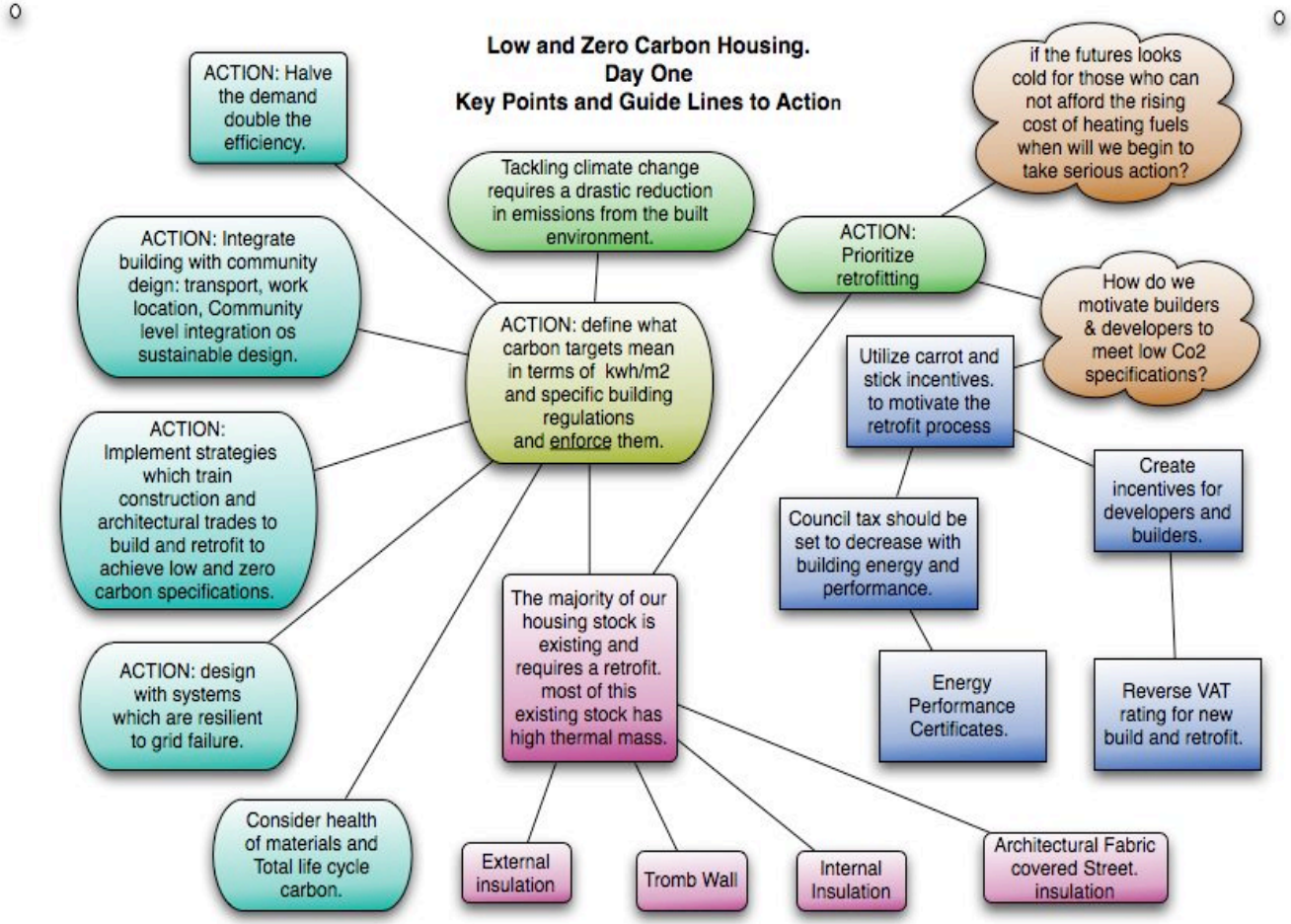
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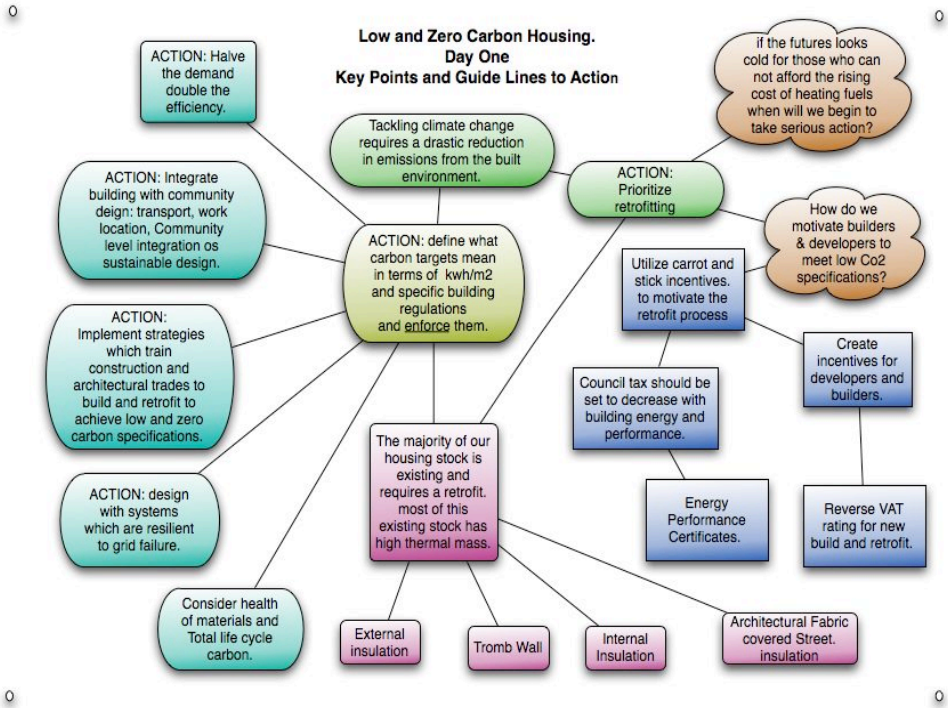
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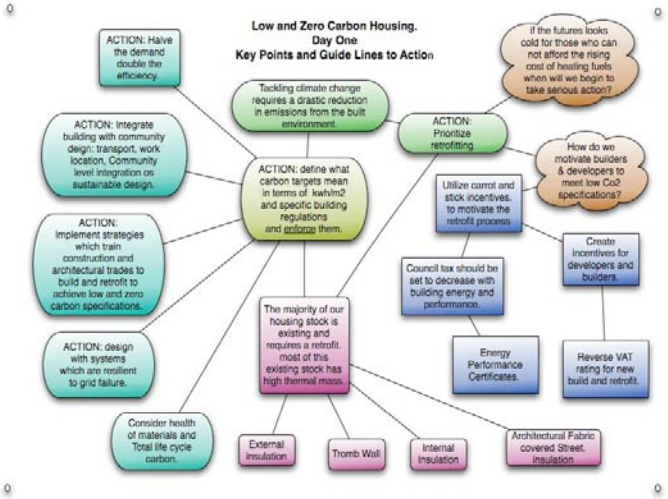
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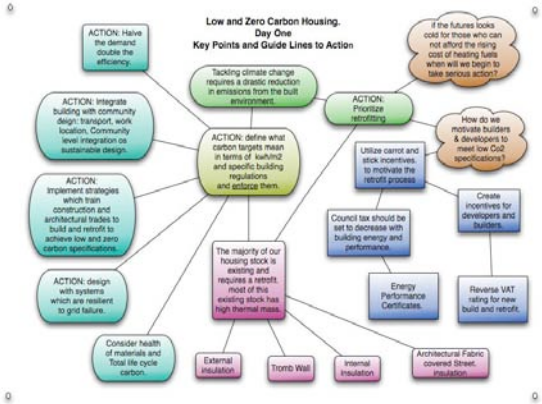
External insulation
Tromb Wall
Internal Insulation
Architectural Fabric covered Street. insulation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External insulation
Tromb Wall
Internal insulation
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Consider health of materials and Total life cycle carbon
External Insulation
Solids Wall
Internal Insulation
Architectural Fabric covered Sheet metal/Wood
ACTION: Prioritise retrofitting
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Create incentives for developers and builders too
Energy Performance Certificates
Reverse VAT rating for new build and retrofit

ACTION:
Prioritize genuine sustainability, address emissions reduction as an aspect of a holistic design.

KEEP PRIORITIZING RETROFITTING

ACTION:
Prioritize genuine sustainability, address emissions reduction as an aspect of a holistic design.

Use planning consent to leverage developers to retrofit existing stock.

KEEP PRIORITIZING RETROFITTING

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Prioritize genuine sustainability, address emissions reduction as an aspect of a holistic design.

Write a clear specific and brief with sustainability outcomes and corresponding contracts.

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ACTION: Remember health, air quality, toxicity, noise, electromagnetic radiation, dust.

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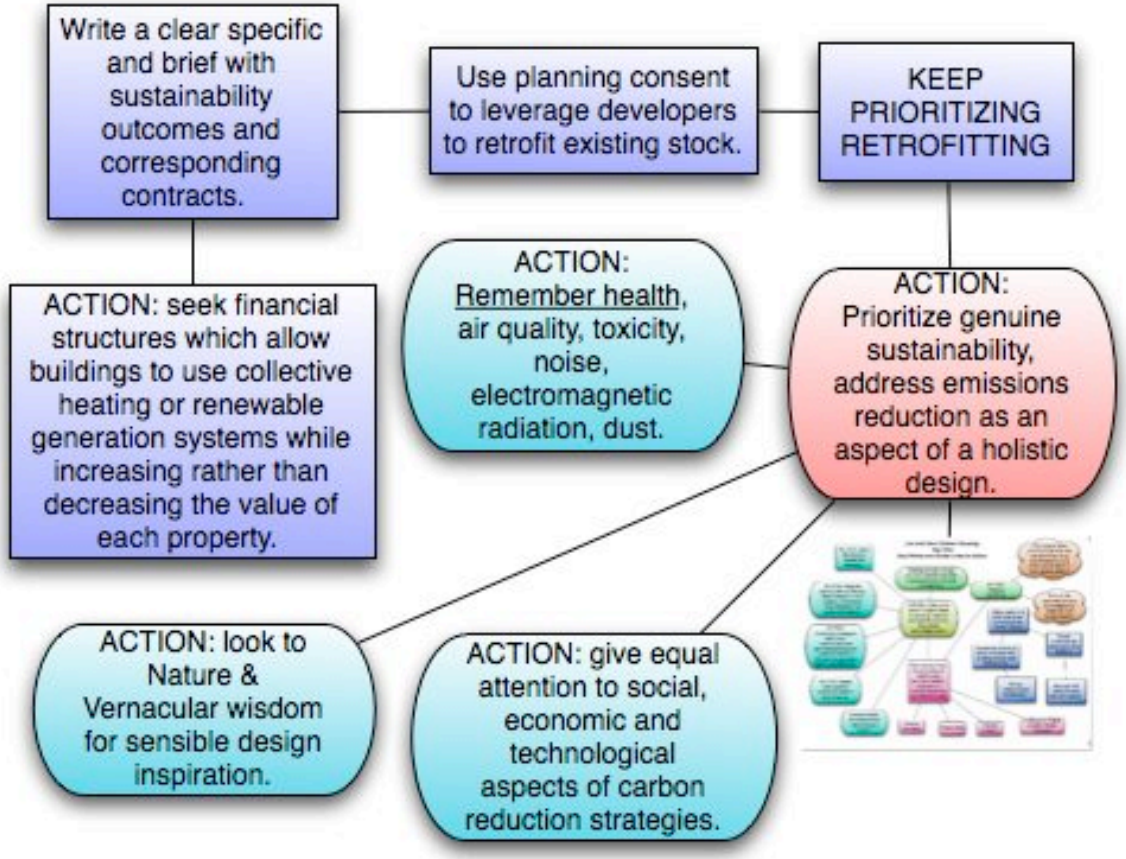
ACTION: give equal attention to social, economic and technological aspects of carbon reduction strategies.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ACTION" Apply low tech solutions before high tech "Eco-Bling"

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Install large scale renewables where they will be most effective.

Write a clear specific and brief with sustainability outcomes and corresponding contracts.

Use planning consent to leverage developers to retrofit existing stock.

KEEP PRIORITIZING RETROFITTING

ACTION: seek financial structures which allow buildings to use collective heating or renewable generation systems while increasing rather than decreasing the value of each property.

ACTION: Remember health, air quality, toxicity, noise, electromagnetic radiation, dust.

ACTION: Prioritize genuine sustainability, address emissions reduction as an aspect of a holistic design.

ACTION: look to Nature & Vernacular wisdom for sensible design inspiration.

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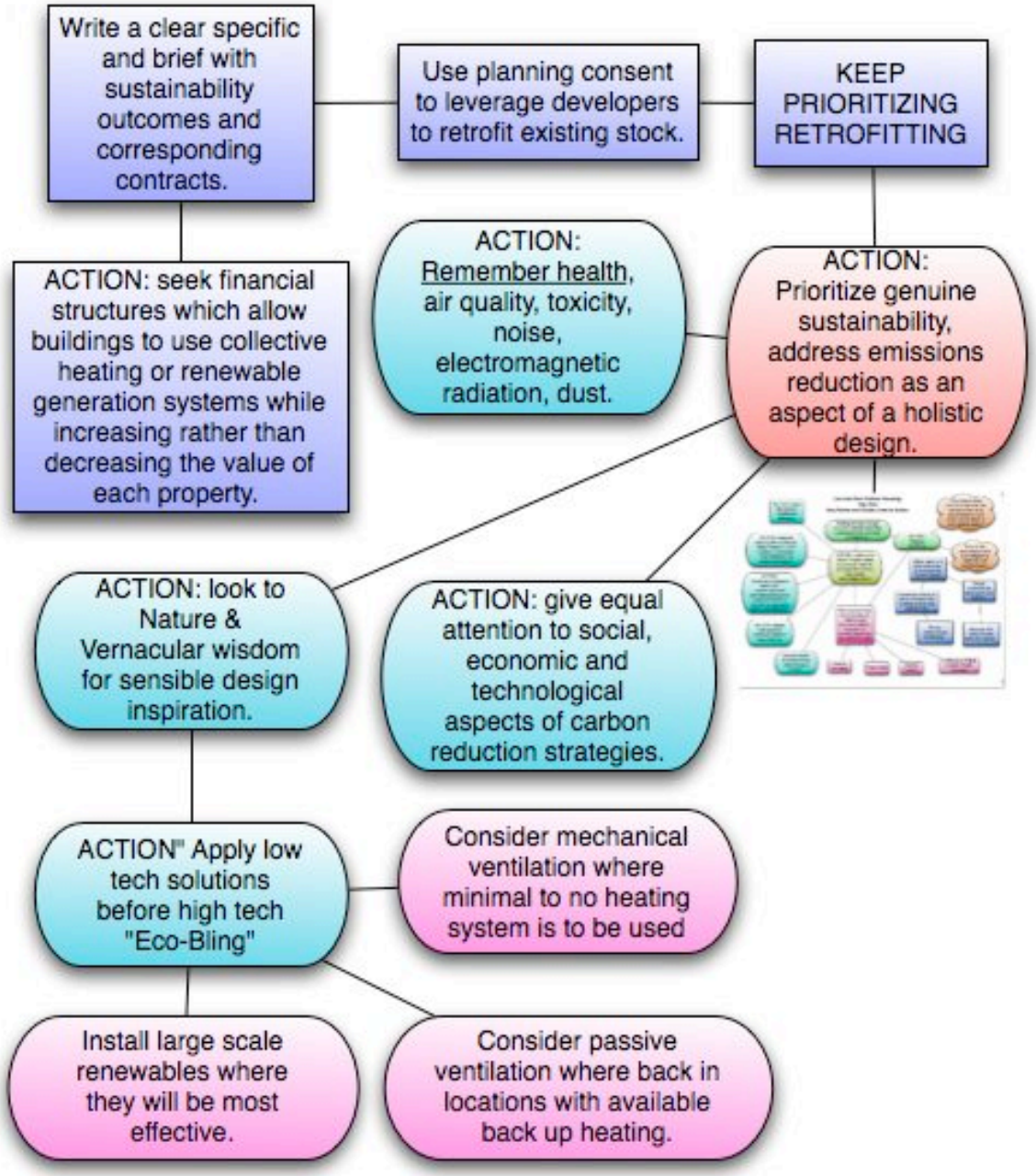
Consider passive ventilation where back in locations with available back up heating.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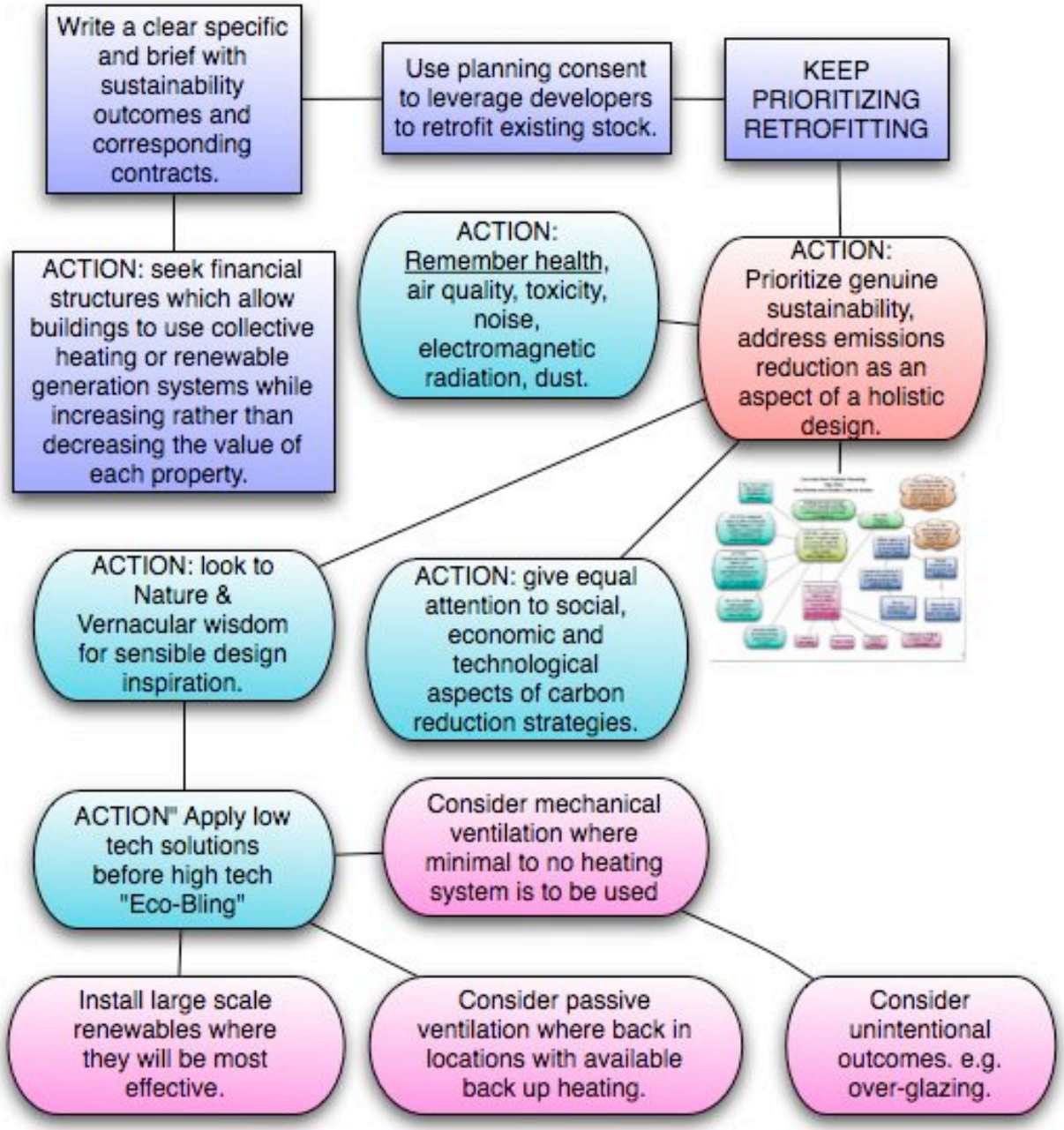
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Net Zero Carbon: carbon emitting fuels are burnt on site, bit locally generated renewable energy is exported to the grid to balance this.

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ACTION: give equal attention to social, economic and technological aspects of carbon reduction strategies.

ACTION: Add covenants for common land in developments with facilitate community use and engagement.

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Sharing = reducing cost & consumption

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Beautiful buildings last longer.

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KEEP THINKING HOLISTICALLY

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cifal Findhorn

Low & Zero Carbon Housing

Guidelines to Action.

THANK YOU