

Hacking the Housing Crisis

Affordable Living

for Celtic Tiger Survivors

Hackaday Dublin Unconference

2018-April-7th

Introduction

- Mark Gaffney
- Mechanical Engineer
- Interests
 - Architecture
 - 3D Printing
 - Jewellery
 - Crafting
 - Bees



Background

- Celtic Tiger → International Financial Crisis

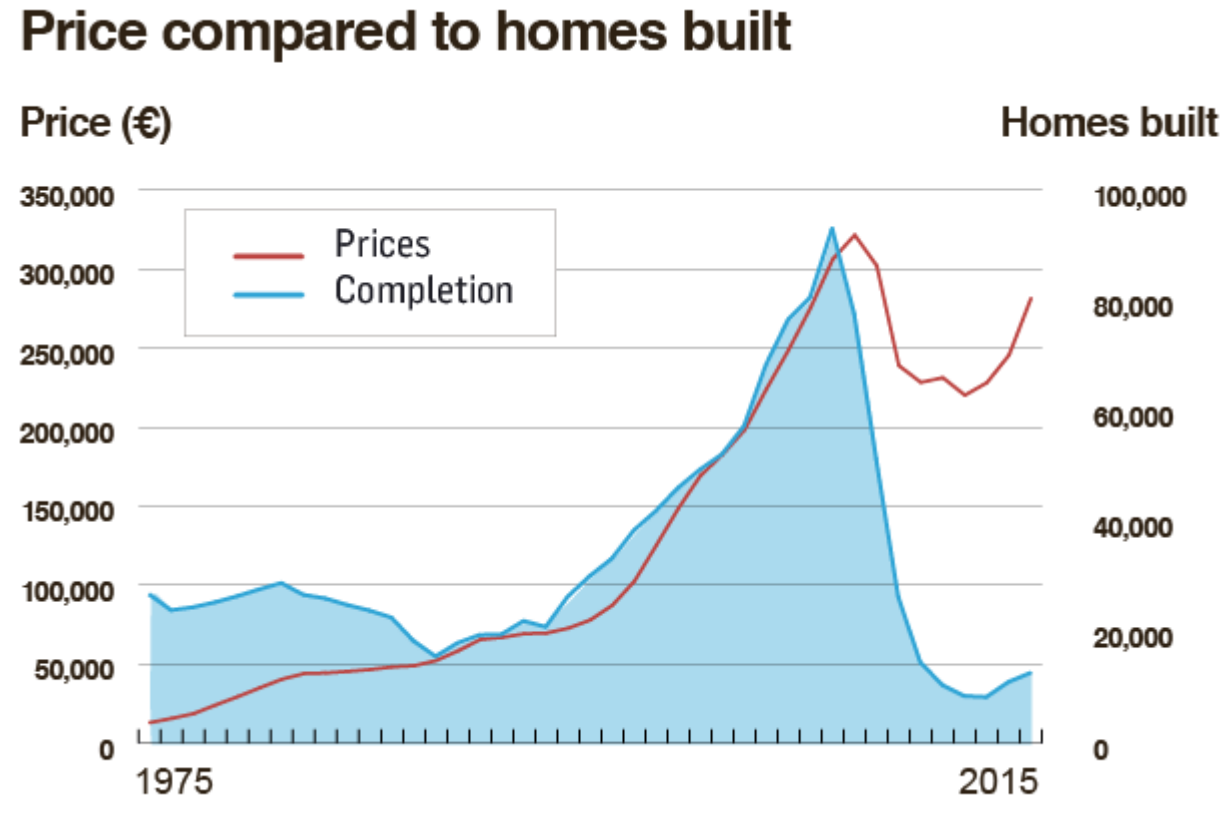


Background

- Celtic Tiger → International Financial Crisis
- Goodbye local authority housing
- Poor Legislative Foresight
- Location Mismatch
- Changing Rules



Background



High Cost + Low Availability + Poor Liquidity
= Housing Crisis

Irish Issues

- Land/labour costs



Irish Issues

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- Anti-high rise
- Anti-demolition
- Anti-alternative



Irish Issues

- Land/labour costs
- Anti-high rise 
- Anti-demolition 
- Anti-alternative 
- Planning Permission 
- NIMBYism
- Anti-Cowboy Laws 



Possible Solutions

- Permitted Development

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- Tied to the Land

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- Permitted Development
- Tied to the Land
- Derelict Register

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- Housing Co-Op

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Housing in Motion

- Shipping Container Architecture



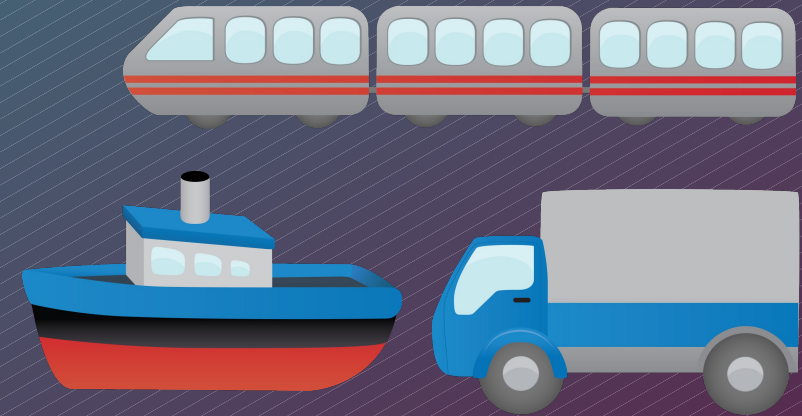
Housing in Motion

- Shipping Container Architecture
- Already trialled in Ireland...



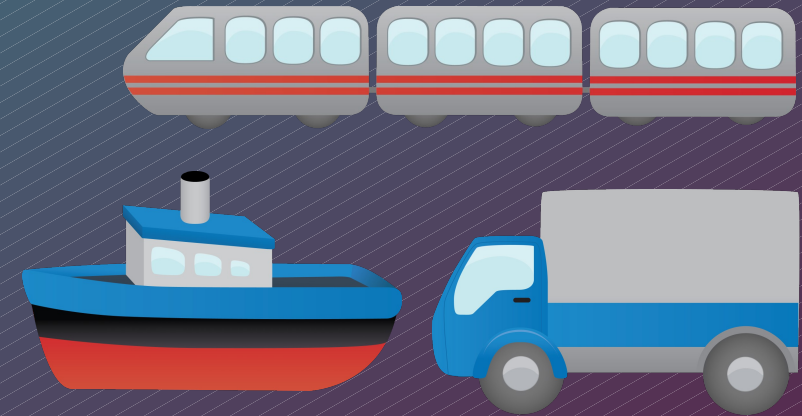
Cargotecture Benefits

- East-West Shipping Imbalance
- Readily Transportable



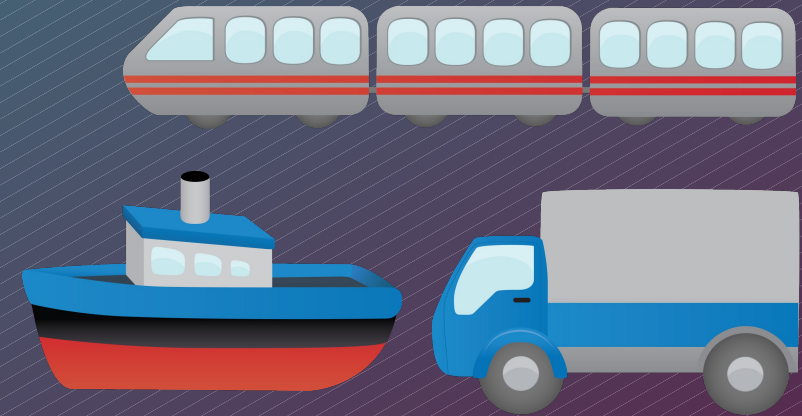
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- €20-50,000 / Finished Unit



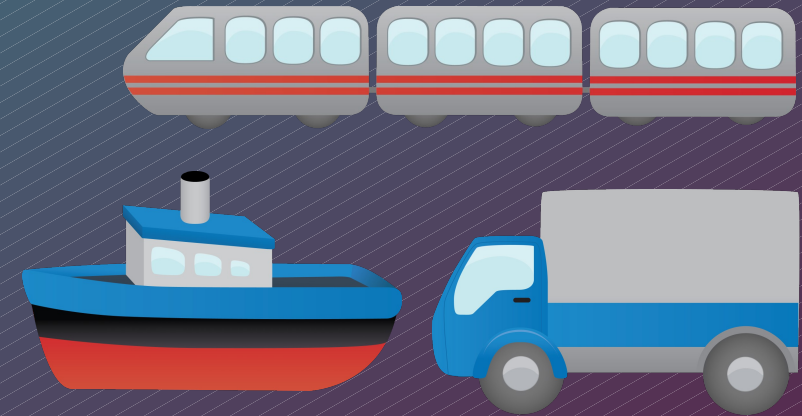
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- Readily Transportable
- Arrive Weather-Tight
- €20-50,000 / Finished Unit
- Fewer Legal Issues
- Off-grid Living
- Low Impact



Cargotecture Problems

- Banks & Mortgages
- Planning & Legislation



Cargotecture Problems

- Banks & Mortgages
- Planning & Legislation
- This isn't Farmville



Cargotecture Problems

- Banks & Mortgages
- Planning & Legislation
- This isn't Farmville
- Different Averse



BOARDS.IE

Find forums, users and posts



Home > Topics > Society & Culture > Accommodation & Property > Using shipping containers as a home

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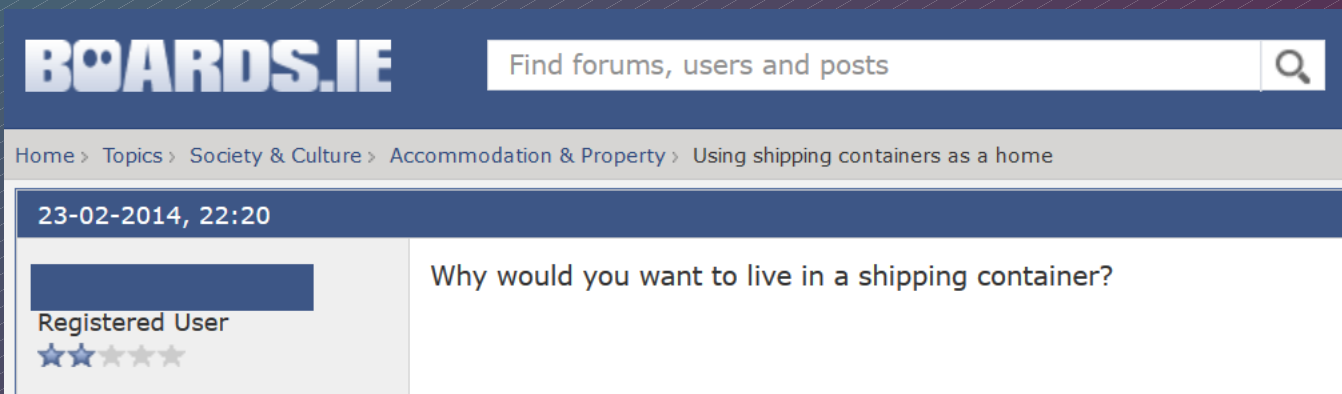
Registered User



Why would you want to live in a shipping container?

Cargotecture Problems

- Banks & Mortgages
- Planning & Legislation
- This isn't Farmville
- Different Averse
- Social Stigma



Work Done

- Find Loopholes
- Design Services/Fittings
- Several basic 1/1.5/2 container designs

Work to Be Done

- Establish legal framework
- Set up Housing Co-Op
- Troubleshoot legal/design guidelines
- Open-source The Project
- Write Parametric/Modular Design Tool
- Housing to Order!

Summary

- A Major Issue
- Not Going to Fix Itself Soon!
- Several Possible Solutions
- Cargotecture Potential
- Need Some Assistance

Thank You!

Questions?

Comments?

Contact

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Some references

- Derelict register -
http://www.citizensinformation.ie/en/environment/planning_and_development_in_ireland/copy_of_derelict_register
- Ceardean Shipping Container House -
<https://www.thejournal.ie/shipping-container-home-house-project-weekend-1808597-Dec2014/>
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