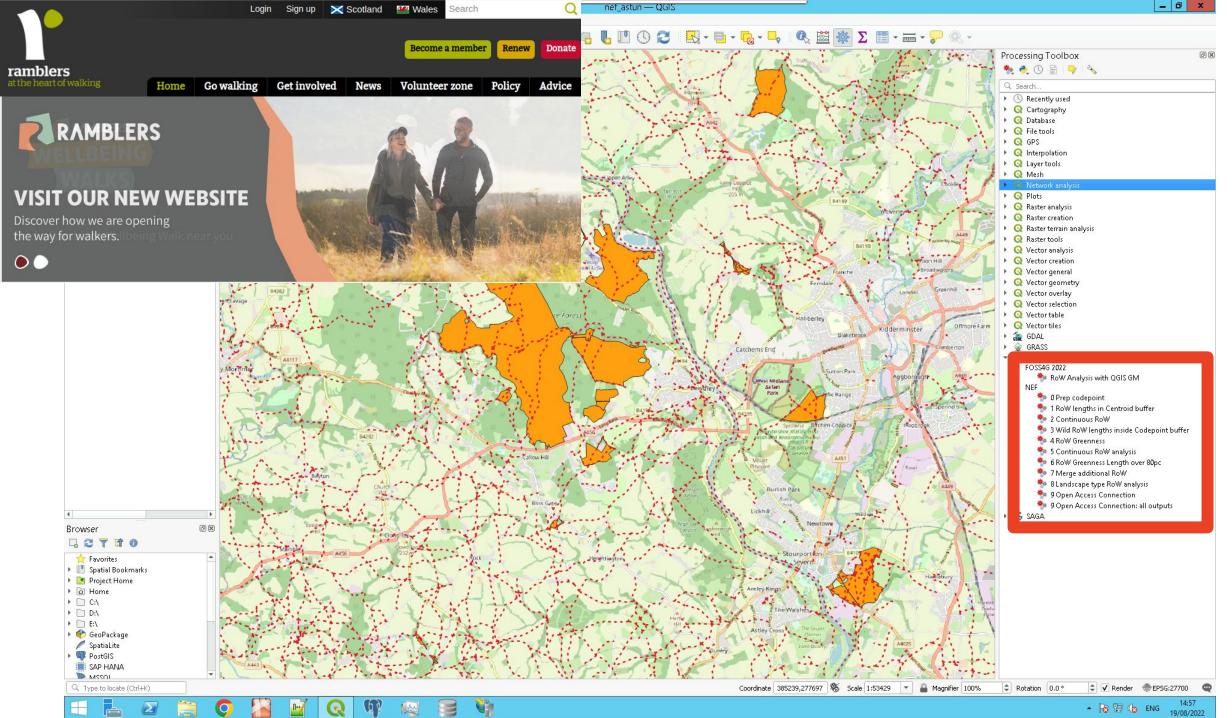


Ant Scott Analysing access to UK public rights of way with the QGIS Graphical Modeler

FOSS4G:UK Local 2022 Bristol November 17th 2022







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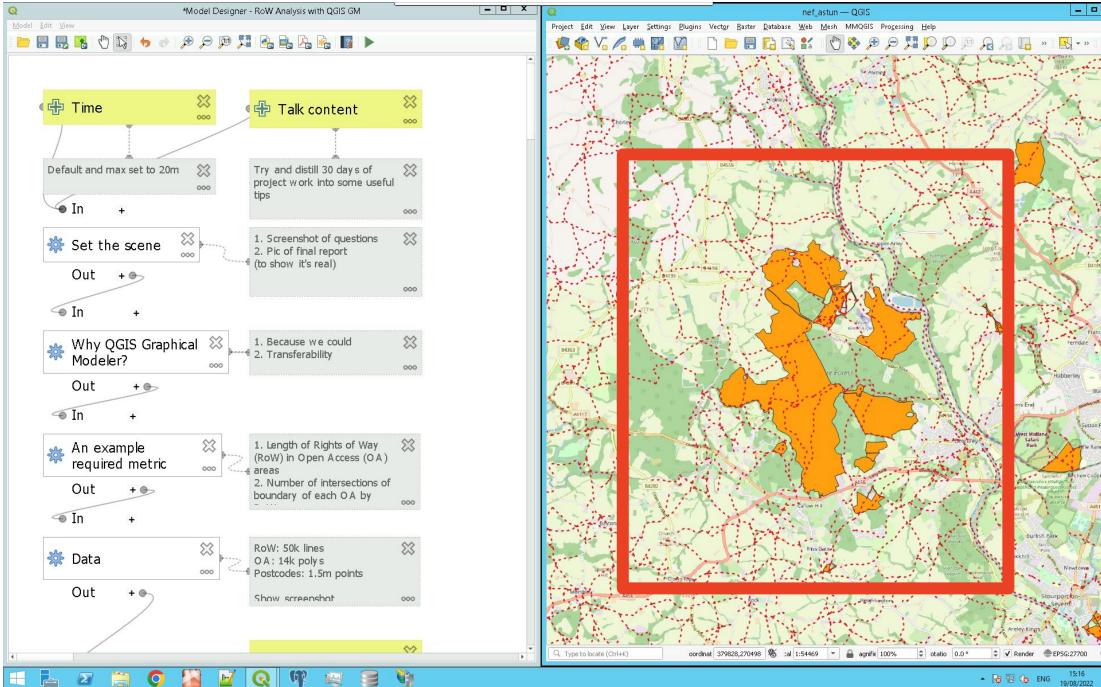
🧔 📽 V. 🖉 🖏 🔛 M Σ * 12 2 = 0 X Model Designer - RoW Analysis with QGIS GM Layers Processing Toolbox Model Edit View 💉 山 🔍 🏹 🖏 - 財 😭 🗔 🕨 🕵 🚣 🚔 🛐 🕅 🖉 🎭 🦺 🕓 🖹 🌗 🔧 👻 🗸 🏚 Wales Q Search. Algorithms open_access_woodland_row_c Recently used Search. open_access_woodland_ew [4] • Q Cartography 🕀 Time 🖶 Talk content ✓ •• prow full [529132] Q Cartography • Q Database nrw_open_access [7108] Q Database ▶ Q File tools national_forest_inventory ▶ Q GPS Q File tools Default and max set to 20m Try and distill 30 days of 🔹 🔽 🏚 Open Access Q GPS project work into some useful Interpolation crow_2020_section_15 Q Interpolation Q Layer tools ●In + ✓ open_access_ew [1] Q Layer tools Mesh codepoint llsoa en wa L. Screenshot of questions Network analysis Q Mesh 🌞 Set the scene 2. Pic of final report 🏚 Landscapes Q Modeler tools Plots (to show it's real) F OS OpenData Out + . Q Network analysis Raster analysis 👻 🗸 🚺 OSM Standard Q Plots Raster creation • In 1.00 Q Raster analysis Raster terrain analysis 🚲 Why QGIS Graphical Q Raster creation 1. Because we could Raster tools Transferability Modeler? Q Raster terrain analysis Q Vector analysis <u>____</u> Out Vector creation + 0-Inputs Algorithms Vector general • In + ▶ 🔇 Vector geometry Model Properties 👞 An example 1. Length of Rights of Way (RoW) in Open Access (OA) 84363 Vector overlay Name RoW Analysis with QGIS GM required metric Vector selection areas 2. Number of intersections of Out Q Vector table + 0-Group FOSS4G 2022 oundary of each OA by Vector tiles Offmore Farm In In Kidderminster . 🚋 GDAL Blakebrop ▶ 🎡 GRASS 🌞 Data Project models Out FOSS4G 2022 + 0-Day 🏇 RoW Analysis with QGIS GM NEF 🏇 0 Prep codepoint 🕀 Audience input 🏇 1 RoW lengths in Centroid buffer 🏇 2 Continuous RoW -In + 🏇 3 Wild RoW lengths inside Codepoint buffer Optional but desirable Who has used GM, $^{\otimes}$ 🏇 4 RoW Greenness 🔆 how many 🏇 5 Continuous RoW analysis processes? 🏇 6 RoW Greenness Length over 80pc < 5 processes 6 - 10 processes 11 - 15 processes Out + 0-🏇 7 Merge additional RoW 🏇 8 Landscape type RoW analysis Variables Model Properties > 15 processes 🏇 9 Open Access Connection Undo History ØX 9 Open Access Connection: all outputs <empty> SAGA 🍪 Browser ØX -e In Milk it if audience was Quick run through of the process wrong, otherwise move swiftly on 👉 Favorites Out +0-🕨 📑 Spatial Bookmarks Show a screenshot and walk through Project Home • 🙆 Home 💿 In) C:\ > D:\ Run through learnings 🐰 🔆 What we learned ▶ 🕅 E:\ 🕨 👘 GeoPackage Out + 0-🖉 SpatiaLite PostGIS SAP HANA

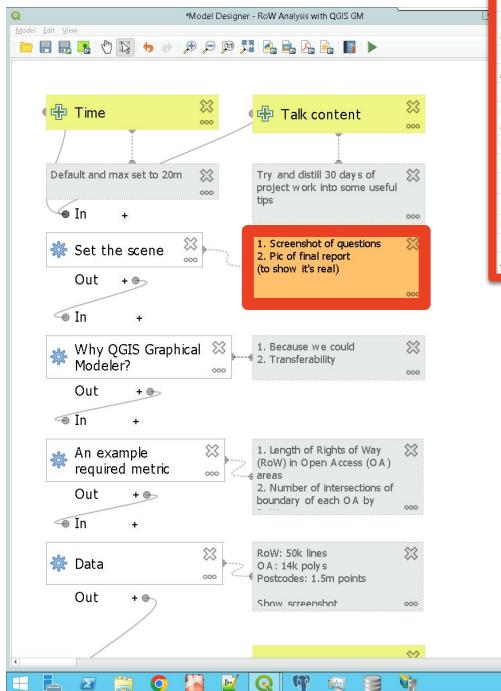
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Length of ROW within Nkm radius of postcode centroid	
Number of ROW of over Nkm (3km?) continuous length within Nkm of postcode centroid assuming X/Y/Z buffer size	
Distance from postcode centroid to nearest ROW of 3km or more	
Average greenness of ROW within Nkm radius of postcode centroid	
Length of ROW within Nkm radius of postcode centroid at minimum greenness level of X	
Length of ROW within/near to wild areas within Nkm of postcode centroid, assuming a buf around 'wild areas' of Nm (20m?) is also included	fer
Proximity of RoW to specific features	
Distance from postcode to nearest access land of at least a hectare in size	
Length of RoW in open access, and number of intersections of boundary by RoW	
Distance from postcode to nearest access land	
Length of DLYW paths within 800m of postcode centrode	
Proximity of RoW to specific classes of features	
Access to RoW from specific features	



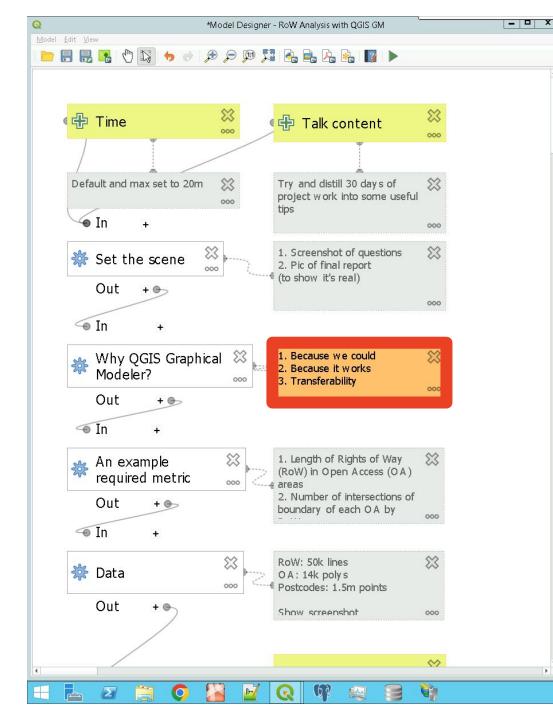
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PATHS AND ACCESS AN ANALYSIS OF PROVISION AND INEQUITY IN ENGLAND AND WALES

Written by: Dr Alex Chapman (NEF), Poorva Prabhu (NEF), and Antony Scott (ASTUN Technology) Published: August 2022



0 Prep codepoint Project <u>E</u>dit 1 RoW lengths in Centroid buffer 2 Continuous RoW 3 Wild RoW lengths inside Codepoint buffer 4 RoW Greenness 5 Continuous RoW analysis 6 RoW Greenness Length over 80pc 7 Merge additional RoW 8 Landscape type RoW analysis 9 Open Access Connection 9 Open Access Connection: all outputs 🏇 7 Merge additional RoW

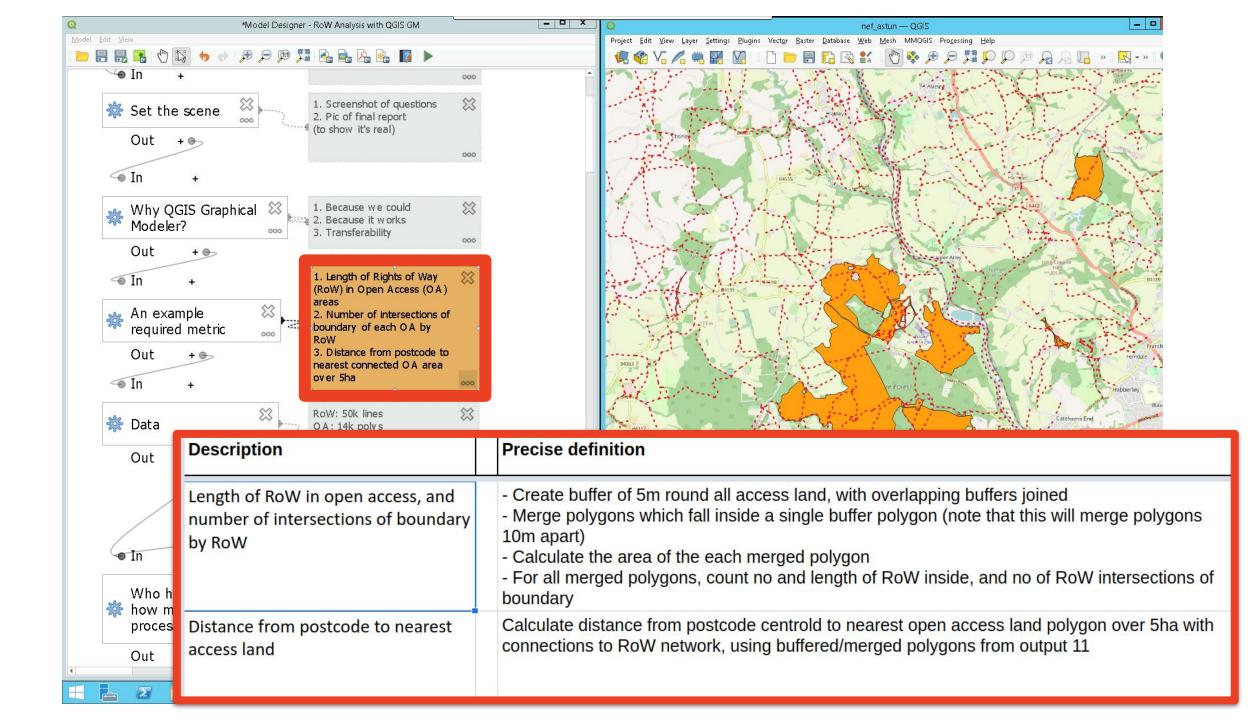
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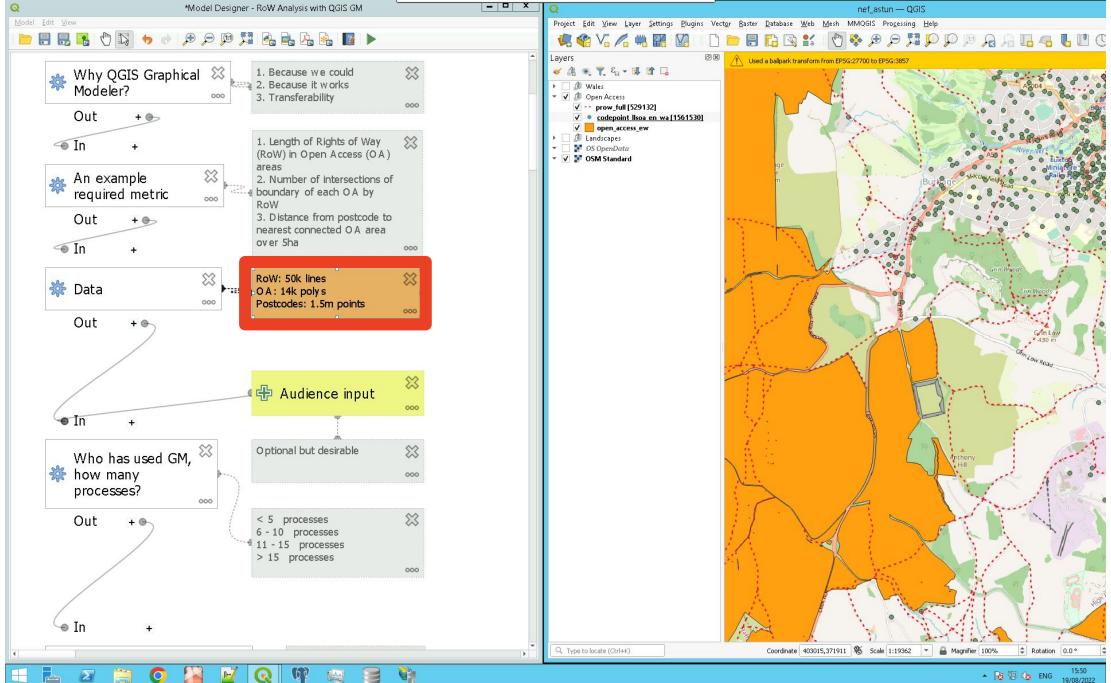
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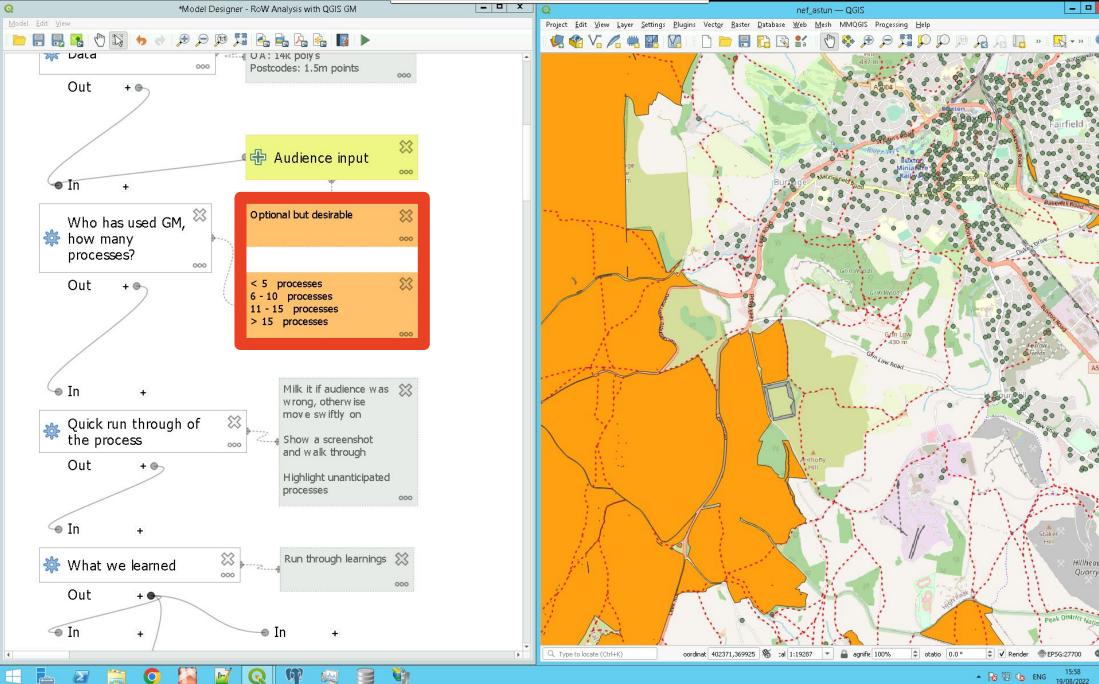
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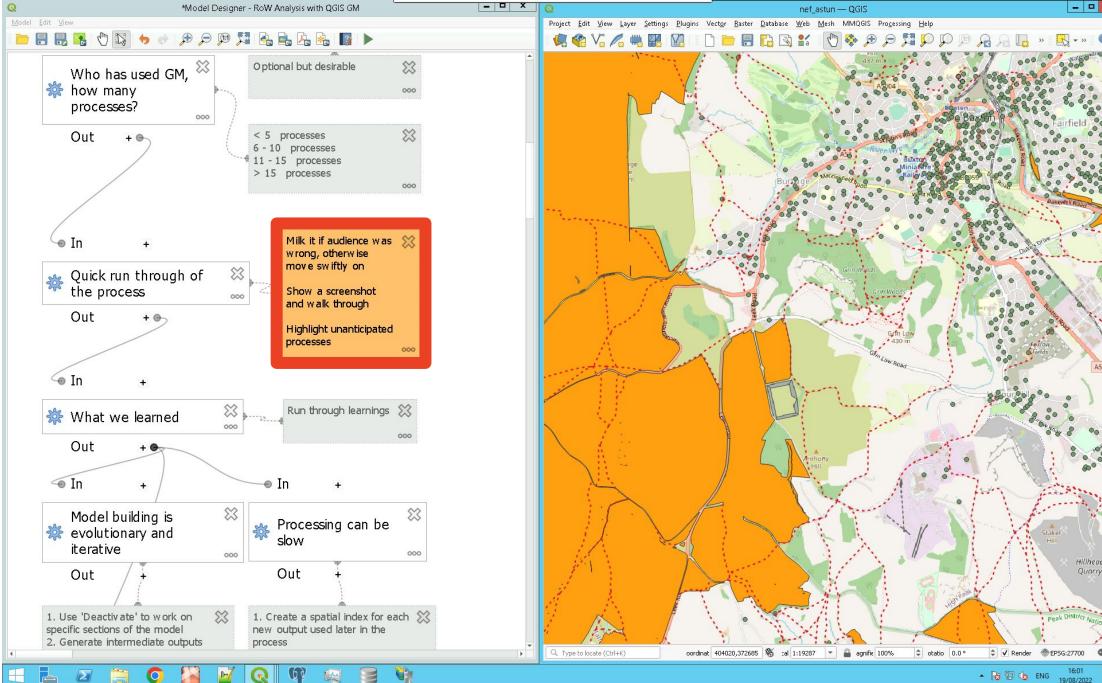
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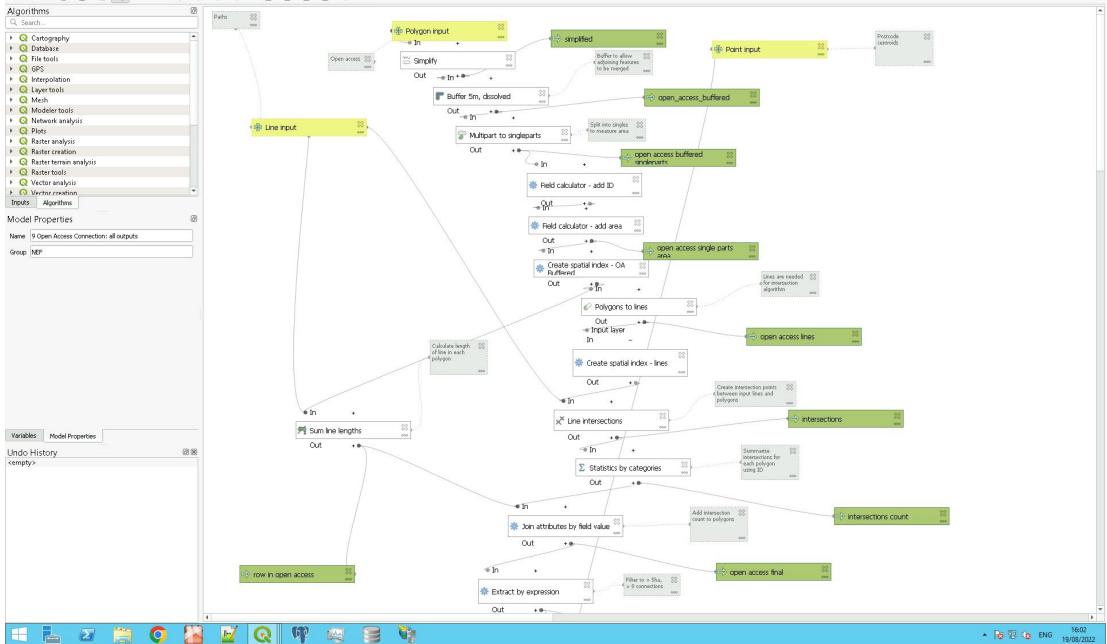
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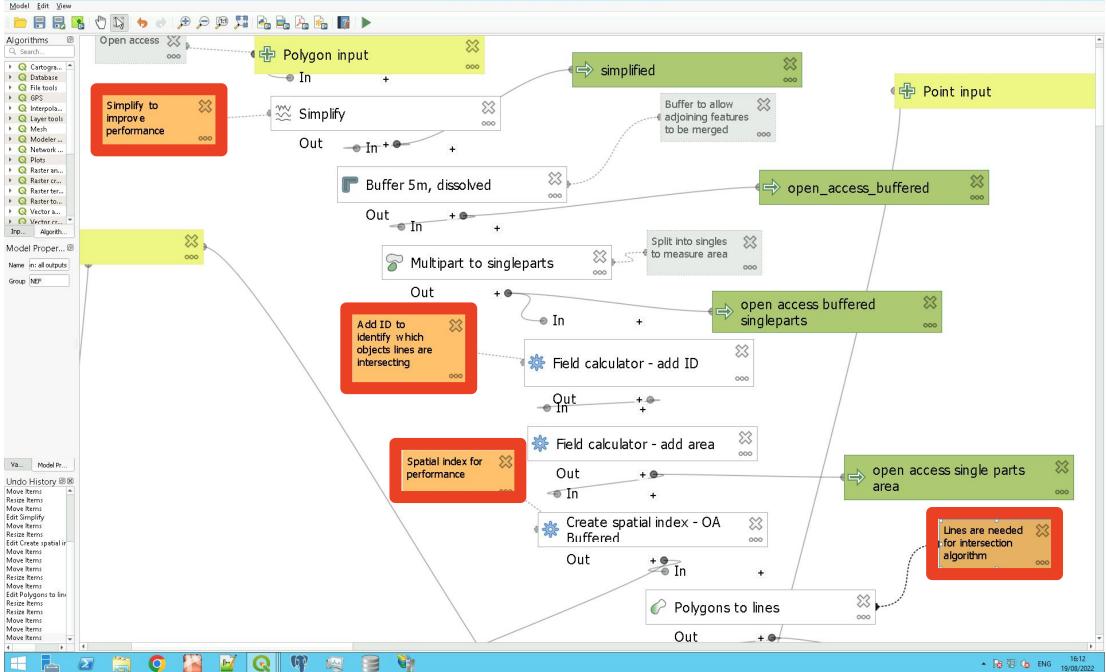


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Model Edit View

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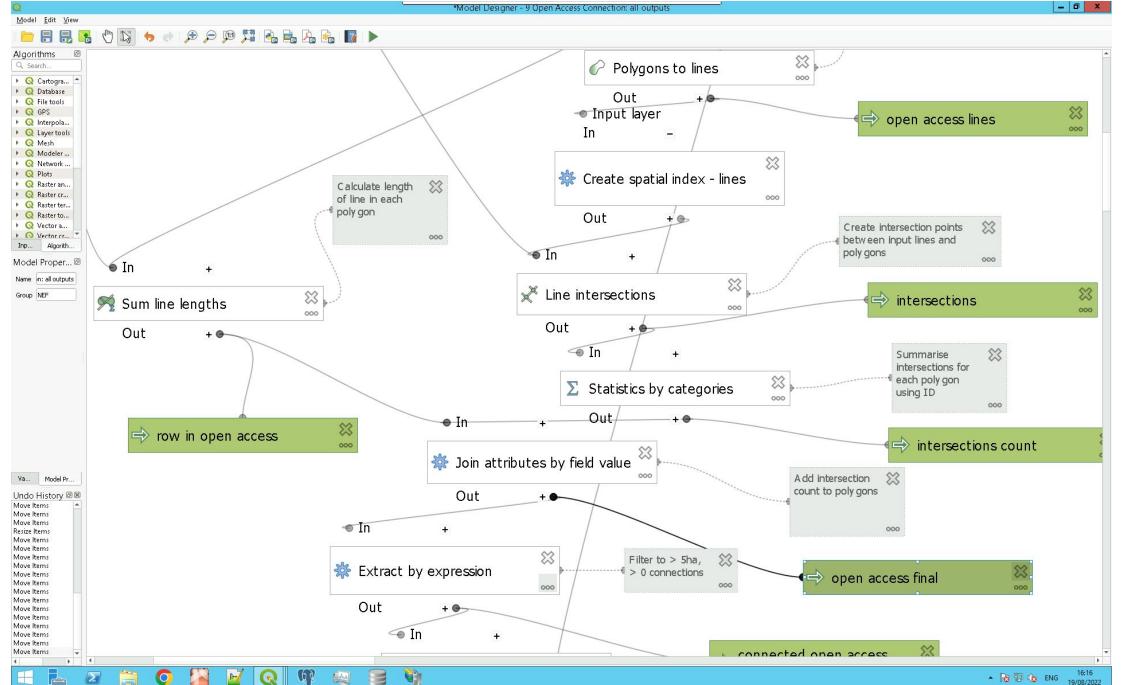




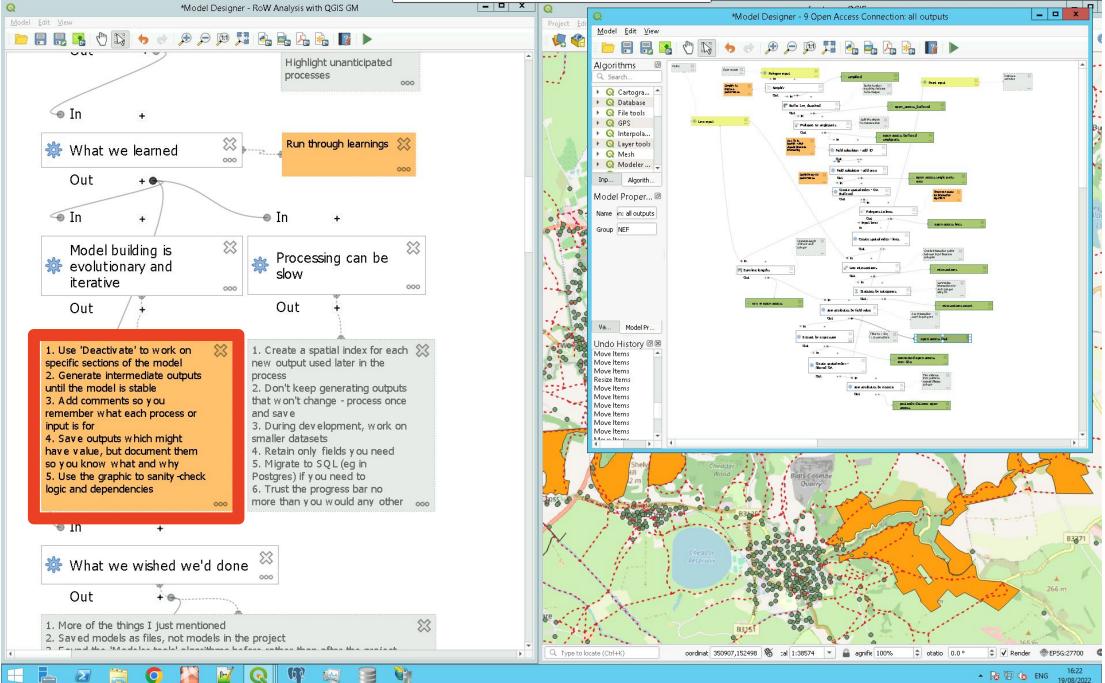
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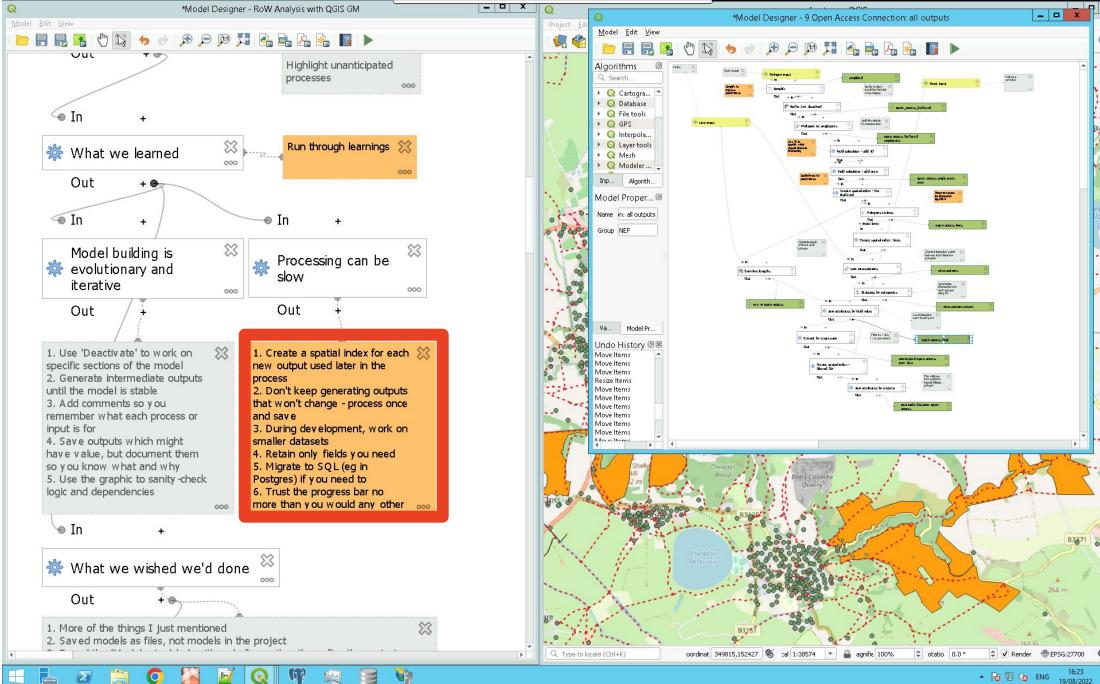
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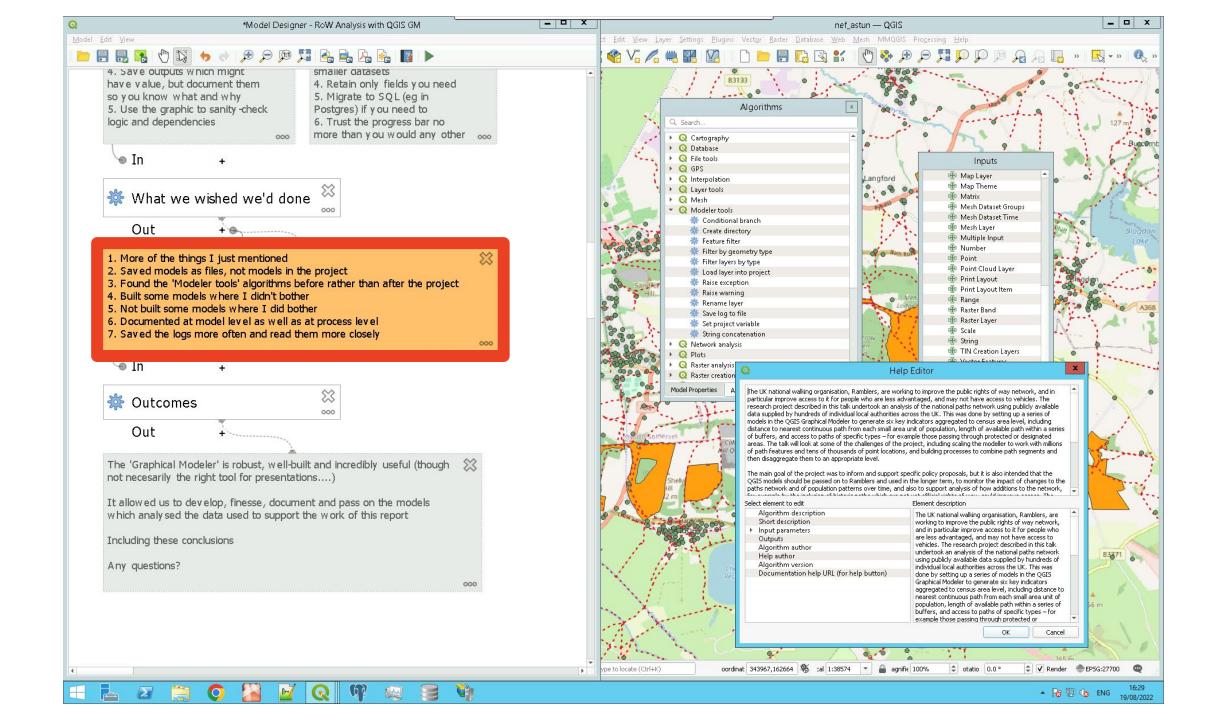
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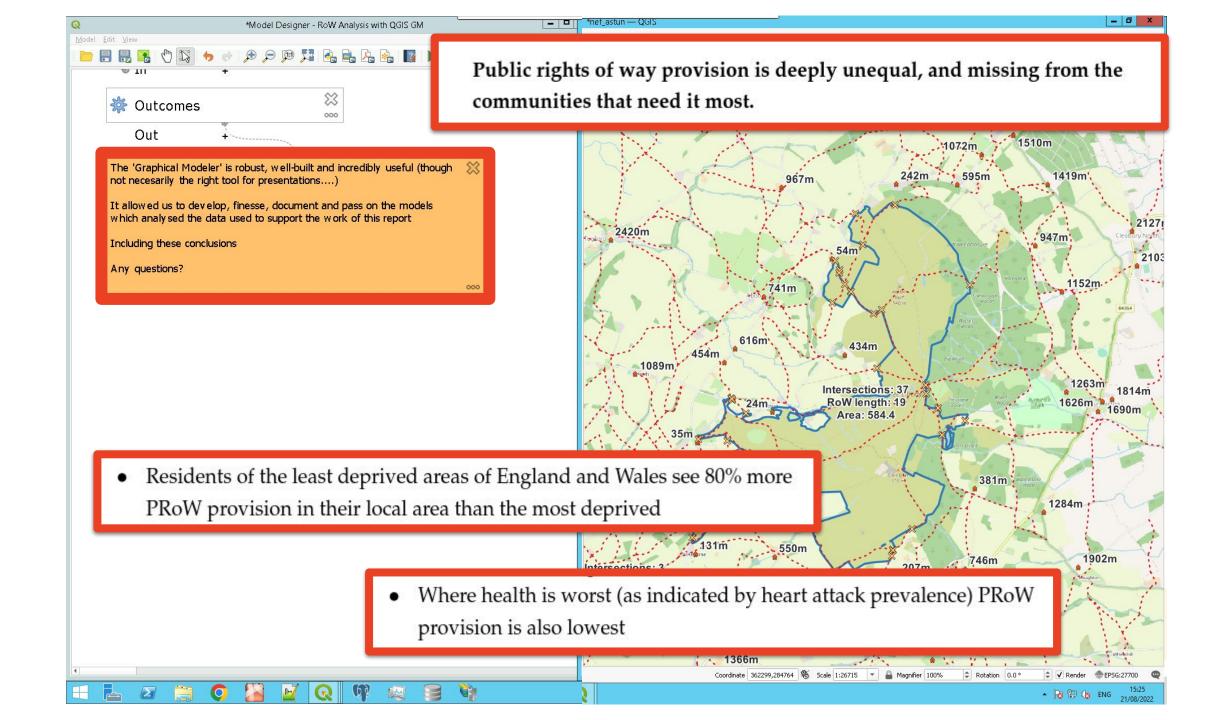


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Thanks and questions...

Ant Scott @antscott