Climate Ready Eastern Adelaide

21 December 2020

State Planning Commission Planning and Land Use Services Division GPO Box 1815 Adelaide SA 5001 By email: <u>DIT.PlanningReformSubmissions@sa.gov.au</u>

CC: Hon Vickie Chapman – Minister for Planning - <u>attorneygeneral@sa.gov.au</u> Hon Jayne Stinson – Shadow Minister for Planning - <u>badcoe@parliament.sa.gov.au</u>; Hon David Speirs – Minister for Environment and Water – <u>minister.speirs@sa.gov.au</u> Natural Resource Committee - <u>nrc.assembly@parliament.sa.gov.au</u> Environment, Resources and Development Committee -<u>ERDC.Assembly@parliament.sa.gov.au</u> Local Government Association – <u>lgasa@lga.sa.gov.au</u>

> Phase 3 –Planning & Design Code – Public Consultation 4 November – 18 December 2020 Resilient East Climate Adaptation - Submission

Dear Mr Lennon,

Thank you for providing Resilient East, our partner councils and community a second opportunity to submit comments on Phase 3 of the draft *Planning & Design Code*. Members of the Resilient East Steering Group appreciated the opportunity to recently meet with Commission Member Allan Holmes and PLUS representative, Brett Steiner, to discuss sustainability issues arising from the draft Code. This discussion was well received and a good opportunity to consider future improvements to the Code through the monitoring of new infill development requirements for tree planting, open space and improved stormwater management.

# Introduction

The purpose of this submission is for the Resilient East Steering Group to provide feedback on the revised draft Planning and Design Code to support the objectives of improving climate resilience including the related **canopy cover, water sensitive urban design** and **biodiversity outcomes**. This submission builds upon several previous submissions, correspondence and meetings by the Resilient East Steering Group on various aspects of the Planning Reforms.

Resilient East have concerns that the inclusion of important greening and water sensitive urban design policies for infill developments especially will not be strong enough in their application to achieve a cooler, greener and more climate resilient Adelaide. We have also presented to the Natural Resource



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Committee Parliamentary Inquiry into urban green spaces highlighting some of the broader concerns with planning and valuing of trees in urban development.

Resilient East is a partnership between the Campbelltown City Council, the Cities of Adelaide, Burnside, Norwood Payneham & St Peters, Prospect, Tea Tree Gully, Unley and the Town of Walkerville and the South Australian Government, a regional alliance tackling climate change. Resilient East seeks to ensure the eastern region remains a vibrant, desirable and productive place to live, work and visit, and that our businesses, communities and environments can respond positively to the challenges and opportunities presented by a changing climate.

This submission does not reflect formal Council consideration by any of the constituent Councils or participating State Government agencies. This input is intended however, to complement the specific planning feedback from participating Councils and provide a perspective from regional climate change adaptation practitioners.

The Resilient East Steering Group acknowledges the amount of work and consideration that has gone into ensuring that the planning system accounts for the long-term impacts of what we plan for and build now. We support that the revised Code leverages a key role in the planning system to mitigate and adapt to climate change, facilitate green infrastructure and WSUD. Improved urban development outcomes are critical in responding to our changing urban form, protecting and securing our water sources, valuing and enhancing biodiversity and building resilience to hazards. Key policy improvements in the Code include the requirement for trees to be planted and rainwater tanks to be installed with all new houses.

Our submission includes:

- A summary of key evidence and knowledge gained between the two consultation periods
- An analysis of relevant themes which demonstrates what we support, our ongoing concerns and our key recommendations. We think the code could be further strengthened to meet mutually-beneficial outcomes, with improved delivery of the Code and its monitoring and review process.
- Appendix 1 is an updated table, based on the table we prepared for our February 2020 submission, with detail on specific policy with new comments and recommendations

<sup>28</sup> Feb'20 <u>https://plan.sa.gov.au/ data/assets/pdf\_file/0016/652021/Resilient\_East.pdf</u> 12 Nov'20 <u>https://www.parliament.sa.gov.au/en/Committees/Committees-Detail</u>









<sup>1</sup> 

# New knowledge between consultation periods

Since February 2020 there have been several key pieces of work completed that support the intent to 'raise the bar' for new infill development within this iteration of the code.

These include:

- <u>What's happening to Adelaide's Trees</u> (June 2020) a major new report prepared by community, non-profit and professional organisations concerned with what's happening to significant, regulated and mature trees, which highlight the loss of canopy coverage and trees across Adelaide and also the need for metropolitan-wide data and monitoring. This report and subsequent forums demonstrate strong community sentiment for retention of trees in our urban and peri-urban landscapes.
- LiDAR canopy mapping Resilient East recently collaborated with DEW, DIT and other Regional Climate Partnerships to undertake an analysis of already captured Light Detection and Ranging (LiDAR) data of the Adelaide area. One key outcome of this work is a mapped benchmark of canopy cover and tree height at a point in time, which can be replicated in the future to track canopy loss or gain. Analysis of land ownership suggests that our greatest opportunity to meet the 30-Year Plan for Greater Adelaide's target of a 20% increase in urban green cover by 2045 is private land. Despite the best efforts on of State and Local Governments to increase tree canopy and green cover, there is not enough space available on public land to keep up with the loss of trees and garden space on private land.
- Options Analysis: Costs and Benefits of Urban Tree Canopy Options for Minor Infill Development in the Planning and Design Code BDO EconSearch (Sept 2020) Independent study commissioned for the Attorney-General's Department in response to demand for a costbenefit analysis around the proposed one tree policy and offset scheme. This study broadly supports the maintaining of the one tree policy and provides a range of options for development of an offset scheme. This paper is referenced further as (BDO canopy report 2020).
- Options Analysis: Costs and Benefits of Stormwater Management Options for Minor Infill Development in the Planning and Design Code BDO EconSearch (Sept 2020). Independent study commissioned for the Attorney-General's Department in response toabove to test policy options for onsite retention tanks, addition of detention capacity and offsite management in wetlands or biofilters via an offset scheme. The report suggests that onsite detention capacity should be included in new Code policy, to assist in managing peak flow policy targets, and plumbing them into non-potable household uses.
- <u>Climate Change Science and Knowledge Plan for South Australia</u> (Sept 2020) Department of Environment and Water a framework for renewed effort and action to underpin SA's responses to climate change and support a climate-smart state. Stage four of the framework is for Planning and Design activities, including Infrastructure design implications with regard



to flood and storm risks, extreme heat, water demands, carbon neutrality, and urban planning impacts. Key relevant actions required include developing coordinated hazard data collection and mapping. Better planning and design now will save costly retrofitting of major infrastructure in the future.

- <u>Guide to climate change projections for risk assessment and planning in SA</u> (Green G and Pannell A Nov 2020) Department of Environment and Water provides a summary of likely changes to key climate variables with the most up-to-date climate change projections for immediate use. These projections continue along the trajectory of what was expected lower but more seasonal variation in rainfall, higher average temperatures, more extreme rain, heat and storm events leading to more bushfire risk days. Average air temperatures globally have warmed 1°C since 1850, in Australia warmed by 1.44 ± 0.24°C since 1910. The occurrence of days of 42°C or more in central Adelaide has been markedly higher in the 10 years from 2010 than in earlier decades. Action to both mitigate and adapt for climate changes is imperative.</u>
- <u>Citizen Science for Creating a Greener Adelaide</u> (report complete July 2020)<sup>2</sup> This SA Health and Metropolitan Council project utilised a citizen science approach to explore perceptions of quality green spaces across metropolitan Adelaide, between 26 February and 18 May 2020 – which fell during the time of social distancing measures due to COVID-19. The research report aims to further understandings of what makes quality green spaces for citizens of metropolitan Adelaide and also provide commentary in reference the State Government's Quality Green Public Space principles. During this time there was an increase in engagement with the natural environment – notably related to exercise, and time in these parks, waterbodies and greenspace – **indicating that increased engagement with natural environment became more important when social interactions with others were restricted.** When movement is restricted to within your property, private greenspace becomes more important. Referenced later as HPHP Citizen Science 2020.
- <u>Where will all the trees be: the 2020 update of green cover benchmarking in our cities and</u> <u>suburbs</u> (November 2020) This is the third instalment in a national series running since 2013, following 2013 and 2017 updates by Greener Places Better Spaces. Although the study demonstrates that between 2016-2020 63% of Councils measured across Australia increased their green cover, 73% increased their hard surfaces. City of Burnside came out second highest at 5.2% indicative increase of "grey cover".
- <u>Government of South Australia Climate Change Action Plan 2021–2025</u> (16 December 2020) Actions 5.1–5.5, 5.8 and 5.9 all refer to strengthening the Planning System's ability to improve climate smart planning, development, and design, greening, **going 'beyond compliance', and improving tools and understanding to achieve greener and cooler neighbourhoods**.

<sup>&</sup>lt;sup>2</sup> Barr e, H., Lange, J., & Wa ker, L. 2020. *Citizen Science for Creating a Greener Adelaide*. Hugo Centre for Popu at on and Hous ng, the Un vers ty of Ade a de. Produced for the South Austra an Department of Hea th and We be ng (not on ne), funded through Hea thy Parks Hea thy Peop e and co aborat on w th the Metropo tan Counc Greenspace Reference Group. Contact at SA Hea th: Tahna Pettman <u>Tahna.Pettman@sa.gov.au</u>



# Analysis of key themes

This evidence-based research has informed key changes in Code policy, including:

- Retention of tree planting policy as originally proposed (albeit the Commission has now proposed a Tree Offset Scheme, an issue discussed further below)
- Introduction of a detention component in larger rainwater tanks to provide for better stormwater management outcomes
- Increased percentage of roof area connected to tanks to maximise water capture, reuse and tank performance
- Relocation of the tree and water tanks policy from General Development Policy into the new Urban Tree Canopy and Stormwater Management Overlays. This elevates the importance of the policy in the Code.

We are pleased to see the revised draft has retained the following:

- Requiring minimum one tree per dwelling
- Maintaining minimum requirement of 7% deep soil area for multi storey development
- Minimum 15-25% soft landscaping space (and defining this as 'living green landscaping')
- Increased provision of landscaping within common driveways and public realm
- Onsite rainwater tanks
- Quantification of the protection of street trees
- Provision of site permeability
- Retention and protection of Regulated and Significant Trees

Further policy improvements that we are supportive of and acknowledge the Commission has responded to the concerns of local councils:

- Two new terrestrial flooding overlays to address higher risk and lower risk areas which contain improved flood risk / mitigation policies
- Bushfire risk overlay
- Inclusion of water tank requirements as part of infill improvements package introduce 1000L detention, and 80% roof capture
- Tree retention and replacement policies have been moved to Urban Tree Canopy Overlay
- Significant and Regulated Tree Protection
  - Reinstate additional policy for the protection of both Regulated AND Significant trees to better reflect current Development Plan policies
  - Title of Overlay amended to include reference to Significant trees as well as Regulated trees

Whilst a good first step, the minimum requirements are unlikely to go far enough to make our region climate ready, and that the opportunity to 'raise the bar' has not gone far enough to support and encourage meaningful change. There remain issues with the application, monitoring and enforcement of these policies as well as the potential "minor variation" erosion of deemed to satisfy (DTS) requirements.

The enormity of preparing Generation 1 of the Planning and Design Code means some of our recommendations could be prioritised as recommendations for Generation 2 of the Code, however it



will be important for the Commission to outline a clear program and scope of policy review and improvement. Each individual council partner in its individual submission has suggested many amendments that should be closely considered to assist in improving the accuracy and interpretation of the Code. **Appendix 1** adds further comments and recommendations based on our submission from February 2020.

# Trees and soft landscaping

The creation of a separate Urban Tree Canopy Overlay is supported, along with the requirements for minimum tree numbers, deep soil zones and soft landscaping. Our recent evidence points to the fact that we will not meet the State Government's 30-Year plan targets for canopy and green space if urban infill continues the way it has (i.e. LiDAR canopy data, Greener Places Better Spaces, BDO Canopy study).

With Council footprints including far more private land than public, if the minimum approach is applied across the state we will not have enough collective cover to build resilience to climate change. Species diversity is likely to decline as well, with smaller trees being favoured for constrained urban spaces.

While this is a good first step, we would like to see these minimums increased in the next generation of the code, and a review process of the application of this overlay in particular.

There is also an inconsistency in this overlay only being applied for new dwellings as well as its varied application across zones, for buildings of different height and tenure (e.g. community housing) and not applied in master planned communities where street trees are relied upon to provide new trees. This represents a significant missed opportunity to increase canopy within our suburbs the policy should be triggered for all types of developments (including house extensions above a nominated size). In many inner metropolitan areas, the majority of developments are for extensions and ancillary development, which increase impervious surfaces and cause unregulated canopy loss.

Subsequent applications once a new house is approved and established (such as for verandahs, decks, pools and sheds) should also trigger an assessment as to whether this new development is at the expense of areas previously approved as soft landscaping area, Urban Tree Canopy Overlay planting, permeable paving, rainwater tanks etc.

### Recommendations

- Include tree and soft landscaping minimum requirements for dwelling additions and ancillary development (outbuilding, garage, carport) which can equally occur up to a maximum site cover parameters and impact on tree planting potential
- Adjust the ratios to favour selection of larger trees, including in the discounts for existing trees
- The Code is supported by a Practice Direction to guide suitable selection of tree species that meet the small, medium and large requirements, and also an education campaign to encourage the retention of existing trees and planting of new trees for both new and existing properties



- Increase setbacks for <u>Housing Diversity and Urban Renewal Zones</u> to 5m to ensure trees have space for survival
- Include the Urban Tree Canopy Overlay for the City of Adelaide and master planned subdivisions
- Monitor the "longevity" of measures established under the banner of "raising the bar for residential infill" to inform future changes to the policies and their practical application (plated trees, soft landscaping areas, permeable paving, rainwater tanks, deep soil zones).
- For ongoing effectiveness, capture information on the extent to which section 106(2) of the PDI Act is being used to dispense with Deemed to Satisfy "requirements" for tree planting and WSUD measures

# Stormwater management, water tanks and WSUD

We are supportive of the creation of two separate flood overlays based on high hazard areas and general flooding (1 in 100 AEP) maps. It is noted that the Federal Government is funding a further flood mapping project which will be able to improve the accuracy of the two flood mapping overlays currently. Given the projected weather pattern changes we will see over many years, we support ongoing consistent and collaborative methodology that incorporates up-to-date climate risks in the modelling. Resilient East is wanting to better understand the scope and inputs for this floodplain mapping. Work is required to ensure the mapping is consistent, correctly applied, and takes future climate change modelling into consideration.

We support a detention component added to the rainwater tanks required for residential properties, however it is only triggered for sites of 200m<sup>2</sup> or greater. Modelling commissioned by Water Sensitive SA (Dec 2020) indicates that this will not adequately reduce peak stormwater runoff in minor storm events, which creates longer term impacts to the performance of minor drainage impacts – we implore the Commission to incorporate the findings of this research into the policy. This is a missed opportunity – small-scale infill will typically result in the greatest increase in hard surfaces. When coupled with the likelihood of the offset scheme being used instead of complying with the minimum tree and soft landscaping space, runoff will be substantially increased and the responsibility for additional stormwater loads will be shifted back on Councils. Onsite detention is a cost-effective way of reducing the flows, and also ensuring fit-for-purpose water use on site by connecting to 80% of the roof area and increasing the minimum DTS standards for plumbed internal use.

In application of this policy, there are still a number implementation issues – the ability for assessment (by private certifiers) as a minor variation from the DTS provisions, and the lack of responsibility on the builder to connect the water tank and the lack of longer term monitoring and enforcement to ensure the rainwater tanks remains on site and connected to the internal water supply.

The compounding issue of localised changes to stormwater flows and flooding as a result of increasing private realm impermeability through infill development will need to be modelled into future flood mapping. Water Sensitive Cities CRC / Water Sensitive SA<sup>3</sup> and the BDO EconSearch Stormwater study (2020) have completed modelling to support this and there are tools that

<sup>&</sup>lt;sup>3</sup> See WSSA submission



developers and planners can utilise to ensure minimal stormwater runoff. Improvements to WSUD policy can be achieved through standard guidelines, working with Water Sensitive SA and industry to improve the policies in the next generation of the Planning and Design Code.

### **Recommendations:**

- Introduce a detention component for all small-scale development, including sites less than 200m<sup>2</sup>
- Require Certificates of compliance for stormwater management DTS prior to occupation to ensure that the systems are plumbed in and working
- Practice Guidelines developed to support better choices for DTS solutions for stormwater management for small-scale development
- Broaden the spatial application of WSUD under the code by equitably applying performance outcomes to group dwellings, residential flat building and battle-axe dwellings, multi storey, single storey, Housing Renewal and other land uses (including non-residential)
- Ensure projected weather pattern changes are incorporated into a consistent and collaborative methodology that incorporates up to date climate risks in the modelling as part of the Federally funded grant allocation.
- Include the Stormwater Overlay for the City of Adelaide
- Support Water Sensitive SA involvement in future policy direction

# Retention of existing mature vegetation – Significant and Regulated Trees

The Code has further work to do in terms of mechanisms not just for planting new trees in infill developments, but in retaining mature vegetation, ensuring post-establishment compliance and incentivising greening mechanisms on private land. There are several key points here:

### 1. Increased pressure to remove trees due to infill

In circumstances where smaller minimum site areas will now be permitted under the Code, subdivision opportunities will increase which may, in turn, result in increased removal of regulated or significant trees. The Code supports removal of a regulated tree where it is preventing development which is otherwise reasonable and expected, so a regulated tree is likely to be removed if it is preventing the subdivision of the property.

### 2. Neglecting to check for regulated trees when approving development

There is a risk that Significant and Regulated trees on development sites (and the policy that goes with it) may be missed by accredited professionals when assessing Development Applications for building work. An applicant is unlikely to indicate that the element of *"tree damaging activity"* forms part of their development application for a house extension, if they are not aware of what this means. Therefore, it is essential that the mechanics of the Code pulls up the question *"Is there a regulated or significant tree on or within 20m of the subject land?"* for every proposed development in every assessment pathway. This will ensure that the presence of a Regulated or Significant tree is not inadvertently missed and the correct policy and assessment pathway is pulled up to enable assessment of the tree damaging activity.



### 3. Exemptions or removal without approval

There is still the ability for regulated and significant trees to be readily removed without engagement or approval by State Government – for example the development exemptions provided for transport corridor projects and schools.

### Recommendations:

- The Code must integrate and reference the Regulated and Significant Tree legislation
- The Code must protect all existing Regulated and Significant Trees, and strengthen the mechanisms to prevent unnecessary removal and excessive pruning
- The Code needs to pull up the question for all development sites "Is there a regulated or significant tree on or within 20m of the subject land?" and place accountability on the applicant for being aware of this and identifying this on an application
- Changes to Regulations to require the location of any regulated or significant tree to be shown
   on plans for development
- A declaration of no potential for tree-damaging activity should be a criterion for Accepted and Deemed to Satisfy development applications
- For equity purposes, Government of SA should be subject to assessment for the removal of Regulated and Significant Trees

# Putting a cost on removal or replacement of trees

The true value of trees is not recognised in many aspects of the development and asset management processes. While there are some methods being employed to measure a monetised value of trees, they are not consistently applied and used across councils or departments. Several methods have been developed that can be used to determine the value of trees (see BDO canopy report p 22-23), typically showing a great difference in the value placed on a tree in public land compared with private land.

Fees relating to the removal of trees are far too low and do not act as a disincentive to remove trees. In most cases, it makes more economic sense to remove the tree(s) and pay the minimal fees. For example, the contributions to the made into the <u>Urban Tree Fund</u> as set by the PDI Act regulations is currently 3 x \$150 fee for removing a Significant tree and 2 x \$150 fee for removing a Regulated tree on private land. This nominal fee falls well short of covering the costs of planting and maintaining a replacement tree (identified in the BDO report as at least \$1,165), let alone the lost benefits.

The independent BDO Cost Benefit Analysis recommends that the cost of replacing trees through an offset fund could be as a minimum of \$603 - \$1,165 when taking into consideration planting and 25 years maintenance costs. The study notes a limitation that they have not considered any other monetised benefits of trees which are the benefits the local residents experience on a daily basis – reduction of urban heat island, biodiversity, amenity, cooling of microclimate and some physical and mental health benefits. A City of Burnside study found lost benefits the community to be in the range of a few thousand dollars for small mature trees through to tens of thousands or more for large mature trees (i.e. \$3,435 for an average unregulated tree, BDO canopy report p30).



The cost of planting a tree in highly constrained urban environments can be a considerably higher. The cost will also increase as to improve tree survivability there often requires more structural support and WSUD, which increase costs also.

#### Recommendation

• Any review under the PDI Act which looks at the cost of removing and replacing Significant and Regulated trees needs to increase the disincentivise removing mature trees

## **Tree Offset Scheme**

In lieu of planting the minimum one tree per dwelling, an offset scheme under the PDI Act has been proposed, designed to capture funds to replace trees. This would allow either State Government or Councils to accept financial contributions from infill applications. Below is an outline of some of the key concerns we have with this scheme, followed by recommendations, noting that the commissioned BDO report provides a thorough analysis.

## 1. Inconsistent with intent of State Planning Policies

The policy in the previous draft of the Code for tree planting and provision of deep root zones for infill housing and small lot housing has been weakened due to the proposed introduction of an Offset Fund for the planting of trees required by the policy. The creation of such a scheme goes directly against the intent of the policy to ensure good design outcomes and improved thermal comfort and amenity for the occupiers of dwellings by allowing for the urban heat island to expand. It provides a cheap 'opt out' whereby the responsibility falls back on councils to pay for and maintain greenspace and trees in the limited public space available.

In general, the development of an offset scheme should be a last resort. The remaining recommendations are suggesting conditions for the scheme in the likelihood that it will go ahead.

### 2. Cost of offsetting a tree

As discussed in the previous section, we do not have a good precedent for putting an adequate value on trees, whether it's the removal of an existing tree or in lieu of planting a new one to meet the DTS requirements. The contribution amount for this has not yet been finalised, although has been touted to be from \$300. This cost is again, nominal, and the BDO has prepared a cost-benefit analysis that looks at appropriate costs that could be used as a starting point. However, these calculations may not necessarily include increasing costs of planting and managing trees in a changing climate (i.e. WSUD and better passive design), the increasing costs in tree survivability in contested urban landscapes, and the cost of the land required to be purchased. It is acknowledged that there is not enough public land available for meeting canopy targets, so this needs to be factored into the cost for an offset tree contribution.

### 3. It's too easy to offset on private land and it becomes Councils problem

It is likely that the Housing Diversity and Urban Renewal Zones with 3m setbacks for urban infill will make it easier for high density developments to pay a minimal amount into a fund rather than planting a tree. Setbacks can include verandas which would further limit the space available for a



tree. If the intent of the scheme is to ensure that urban infill also contributes to the greening and cooling of the houses and suburbs, this policy seems at odds with that objective.

## 4. There needs to be limited circumstances in which the offset scheme kicks in

The offset scheme must be used in the most exceptional circumstances, for example where the tree can't be planted because of soil types or other evidence-based and documented reason for dispensing with the requirement, not just because the owner or developer doesn't want to plant a tree. The requirement for a tree is an opportunity for more creative design, rather than standard designs that don't suit every property.

## 5. Management of fund in hands of Councils – cheaper and more locally applied

There is a concern that the spatial application of relocated trees will not have any reference to a local vegetation plan or strategic response. The offset scheme should facilitate the replacement trees being planted in the local area – as per the BDO study advice.

Furthermore, there are concerns that the \$200,000 per annum administration costs identified in the BDO canopy report represents \$200,000 worth of missed tree planting investment. The Act enables collection and management of the offset schemes to be available to Councils, similar to the existing urban tree fund or carpark scheme – they are typically well administered and governed, and the money goes directly where it is meant to go. This will be an effective way to keep the benefits localised. Managing the fund inhouse is recommended, where there are negligible administration costs.

### Recommendations:

• Enable use of the offset scheme as a last resort.

Ensure any progression of an offset scheme is done in consultation with LGA, Councils, Green Adelaide, WSSA (etc) and requires:

- A consultation on the BDO reports and analyses
- Reasons to offset should be limited and rigorous require parameters and implications of relocating plantings in terms of available space and spatial imbalances of tree cover
- Needs to be easy for councils to use and access, reduce centralised Government SA costs in administering – utilise existing mechanisms to deploy with conditions and parameters around it
- Councils should not have to co-contribute to access funds.
- Need to establish vegetation plans for local areas so a strategic approach can be implemented
- The appropriate costs for offsetting minimum trees, soft landscaping space and deep root zones, taking into consideration the declining space and increased costs of planting and maintaining trees in public realm, and the full range of benefits and values (i.e. in \$'000s not \$'00s)
- Audit review process prepared to ensure that private accredited professionals are not dispensing of the requirement to plant a tree or pay into the scheme as a minor variation



# Planning and Development Fund

The delivery of quality open space is getting harder to achieve for councils as suburban areas continue to grow in housing and population density.

Local, quality open space that people can walk to has been noticeably important during the mobility restrictions we have faced due to Covid-19 during 2020. A citizen science study conducted by Healthy Parks Healthy People<sup>4</sup> during this time found that there was an increase in engagement with the natural environment – notably related to exercise, and people spent more time in these parks, waterbodies and greenspace – indicating that increased engagement with natural environment became more important when social interactions with others were restricted.

There are concerns that the sizeable annual contributions to the P&D Fund from infill development are not currently being used for its intended purpose of purchasing and developing quality open space. The fund is being heavily withdrawn from, for the implementation of Planning Reforms rather than its purpose – to *"support the purchase, planning and enhancement of public spaces throughout South Australia"*. This comes at a time when it is critical to provide more open space and quality open space development (urban green spaces). While it is noted that a Government Gazette issued on 12 November 2020 notes that the fund cannot be spent on these activities from the 1 July 2021, there are concerns that many millions of dollars will have been lost from urban greening projects by this time.

Some of this funding has gone towards Green Adelaide's competitive Greener Neighbourhoods Grants by Green Adelaide for 50/50 split street tree planting and WSUD, so councils are still having to demonstrate they can raise the half of the capital in order to access this funding.

### Recommendation:

- The Planning and Development Fund is clearly quarantined to be used to "support the purchase, planning and enhancement of public spaces throughout South Australia".
- A review of the Planning and Development Fund is conducted, with a focus on equitable distribution, as many of our councils are experiencing high infill development.

<sup>4</sup> Refer to page 4



# Application and use of the Code

There are several inconsistencies and issues with the application of the Code, and concern by Councils that it will not be fit-for-purpose prior to the implementation date. Below is a quick summary of key points:

# 1. Lack of local policy could lead to unintended consequences:

The simplifying and rationalising of the policy reduce the nuances expressed in current Council Development Plans where development could lead to poorer development outcomes.

# 2. Code should be one source of truth:

The hard copy Code doesn't necessarily match policy returned in the e-planning system – if it is not going to be ready in the online system and Councils are still finding many errors, this will incur big risks and costs to both Government of SA and councils. It is preferred to delay in order to identify and remedy these errors and inconsistencies.

# 3. Application of some policy / layers not consistently applied:

Council planning staff have found that provisions might appear in the Code, but when put spatial layers are overlaid, certain policies and requirements aren't applicable, or it is easier to reduce the retention of these policies (i.e. urban renewal areas, community housing providers, multiple storey, City of Adelaide spatial omissions).

# 4. Minor Variations with DTS:

There is concern that the deemed-to-satisfy process will be too easy for minor variations to be made by a privately accredited professional assessing applications, especially for the number and size of trees per property, soft landscaping, deep soil zones, and water tanks. We are concerned over how this might diminish our long-term targets for greening and cooling our suburbs. Therefore, before the P& D Code goes live, it requires consideration of mechanisms for ensuring DTS loopholes do not reduce soft landscaping, tree survivability, water tanks.

Several Councils support changes to the Act to restrict private accredited professionals (private certifiers) from the ability to approve variations to Deemed to Satisfy (DTS) criteria in the Code. Such applications that do not meet the DTS criteria should be assessed by an Assessment Manager or Council Assessment Panel.

The ePlanning system should as a minimum be enhanced to include a requirement for private certifiers to identify which DTS parameters have been assessed as minor departures and the reasons why this is justified to not impose on the application.

# 5. Discretion to decide which policies are key:

If a development type is not defined or does not appear in one of the assessment tables in a zone ("Accepted" "Deemed to Satisfy" or "Performance Assessed"), it is at the discretion of an assessment manager which policies are considered during assessment. Key, or even basic design, policies which could be key to achieving Resilient East goals could easily be overlooked during assessment. If there



are key policies which must always be considered during assessment, there should be another mechanism to allow for this, rather than via an Overlay. There is a risk that some policies won't be 'called up' for different zones, and therefore we recommend assessing the code for improved consistency in setting out the relevant policies.

### Recommendations:

- Ensure quality not time dictates the timing of the launch of the Code
- Set out the time and scope of the legislated review of the P & D Code
  - Require timescales so we can be certain of when Generation 2 will be initiated, and the process for auditing the effectiveness and issues with Generation 1 of the code.
  - Therefore, before the PDI code goes live, it requires identification of what strategic indicators and data capture will be put in place to ensure accurate measurement can occur on the effectiveness of new Code policy (e.g. soft landscaping, tree survivability, water tanks)
  - Establish an audit process with for example, 1,2,5year auditing of tree and WSUD features retained on approved developments
  - Use aerial photography and LIDAR to measure longer-term changes
- Guidance be provided through a Practice Direction or Guideline (and education) as to what constitutes a minor variation, for example a minor variation should only be applied to minor departures for measurable figures such as site area, site frontage, wall length etc. They should not apply to qualitative criteria, tree planting or RWT requirements. This will make it harder to be subjective and not water down the intent of the scheme
- All decision makers should be required to document all minor variations and the reasons why the variation was considered minor
- Consistently apply the minimum standards for soft landscaping, deep soil zones, minimum tree sizes and stormwater management to all housing types and tenures and community housing

### **Regional Planning**

In addition to the suggested changes to the Planning and Design Code, the Steering Group restates its view, made in earlier submissions on the Planning Reforms, that successful implementation of the State Planning Policies requires translation and resolution of competing State Planning Policy objectives into clear, spatial guidance through Regional Plans.

Regional Plans were identified in the PDI Act and in the planning reforms process as the logical sequential step before preparing the Code policy detail, which has not occurred. The role of Regional Plans is crucial in providing the spatial delineation, to strike a balance between competing environmental and urban growth needs. Currently the interim 30 Year Plan (used in the absence of a regional planning process) does not provide the level of detail or the degree of integration needed, to guide the spatial application of planning policy.



The Regional Plan for Greater Adelaide would provide a consolidated, up to date strategic roadmap, including integration of all relevant regional strategic documents such as the Resilient East Adaptation Plan.

The Regional Plans have not been prepared prior to drafting of the Planning and Design Code. These should have been carefully developed and negotiated with local government, business sector, infrastructure providers and communities to facilitate appropriate policy setting prior to the application of the Planning and Design Code.

Notwithstanding this missed opportunity to inform Code policy, future amendments to the Code will be an important process to refine, improve and maintain contemporary applicable zoning and policy for desired development. It is important these Regional Plans are prioritised as soon as possible, to provide guidance for the large number of Code Amendments expected to be lodged upon commencement of the Code.

The *Planning Development and Infrastructure Act 2016*, creates new options for land owners to individually pursue a site-specific Code Amendment, with the support of the Minister.

This could result in randomised but cumulative infill impacts that negatively affect canopy cover, established gardens, significant trees, erodes the functionality of urban habitat corridors (typically across residential gardens and canopy) and diminishes the heritage and amenity of areas in an uncoordinated and unconsidered manner. Significant local area planning investigation and negotiation is required before areas of increased infill opportunity can be delineated in the Regional Plan and needs to be matched with appropriate policy that addresses infrastructure standards and staging, provision of green cover on private land, water sensitive urban design and heat island mitigation measures.

The private Code Amendment opportunities created under the new legislation have the potential to compromise broader strategic outcomes, precinct planning and prioritisation, and exclude councils and their communities from meaningful influence of the development of their neighbourhoods.

The process governing Code Amendments should provide for Councils to maintain a lead responsibility in setting policy and strategic control. Land owners should be directed to collaborate with councils to facilitate their interests as part of broader strategic approach.

The availability of spatially resolved and agreed strategic directions for regions through the Regional Plan will be critical in considering Code Amendments, particularly those by private interests. It is recommended the process commence as soon as possible for collaboration with local government and other key stakeholders on a Regional Plan under the PDI Act 2016.



### Building back better - reform for change

Economic stimulus packages that target the building and construction industries have been utilised during the 2019 global financial crisis and the 2020 pandemic, benefitting this industry that employs 1 out of 10 working Australians. However, there have not been any specific sustainability requirements attached to recent federal 'homebuilder' stimulus packages. In the future, having a planning system that embeds the principles of environmentally sustainable design (ESD) in South Australia, will ensure that construction stimulus will enable 'building back better', as implied in the State Planning Policies. Good building and planning design, especially localised greenspace is better for the environment, better for living conditions and living costs in a heating and drying climate.

There has been strong support for the stronger use of low carbon materials and greening policy elements featured within this Planning Reform, especially conflicted with rules around removal of mature trees or street trees and increase of hard surfaces, losing character of areas and trees and greenspace not being replaced that adequately cool and provide the various benefits that were previously there. Reforming the planning system to enable this change through increased performance of urban infill will help mainstream the necessary and inevitable transition to a low-carbon and climate resilient building stock.

#### Contact and follow-up

Thank you for your consideration of the feedback provided in this submission to provide an increased policy focus on improving climate resilience and climate adaptation, including enhanced liveability for urban communities, increased canopy cover, improved water sensitive urban design and biodiversity outcomes.

We acknowledge the large amounts of work completed so far, the policies included that move towards our shared goals, and look forward to being involved in the review of the PDI Act and the development of Regional Plans.

Should you have any questions please contact Bec Taylor, Resilient East Coordinator at

Yours faithfully,

Ben Clark **Chair Resilient East Steering Group** Group Manager, Assets & Infrastructure Town of Walkerville

Ph:

On behalf of resilienteast.com



# Appendix 1: Resilient East Planning and Design Code feedback - Updated December 2020

The following comments are offered in response to specific parts of the Planning and Design Code with recommendations on how this can be overcome in revisions to the policy. We have kept our comments from the February 2020 submission. <u>Recommendations are underlined.</u>

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT a
BIODIVERSITY			
There are limited examples of where biod	iversity is referenced in the code. Biodiversity in sele	ction of plant species is important to improve resilience	in our urban forest and
future of projected temperature increases	s, varied rainfall, bushfire risk increasing and potenti	al for increase in pests. Reducing	-
State Planning Policy 4 Biodiversity is not	A number of important policies contained in	The opportunity to include biodiversity as Desired	There is still very limite
reflected in an overarching biodiversity	current Development Plans and South Australian	Outcome at the zone level and Performance	<u>1. The criteria for 'soft l</u>
policy as a Desired Outcome.	Planning Policy Library have not been	Outcomes in the General Development Provisions is	for biodiversity.
	transitioned across to the Code.	desirable. Code policy to be reviewed and tested to	This is more importan
		ensure current policy protections have not been lost.	with the trend of decre
<u>Overlay</u> – new overlay required	State Planning Policy 4.1 is not reflected in policy	Develop a Critical Habitat Overlay that includes critical	Further opportunity to
	to ensure significant habitat protection.	habitat for threatened species and ecological	
		communities listed at state and national level.	
<u>Open Space Zone</u>	There is no recognition of these important	Biodiversity value to be incorporated in all relevant	Suggestion has been
The Open Space Zone seeks "visual relief	natural assets (eg River Torrens Linear Park) for	Desired Outcomes for open space, with corresponding	
to the built environment for the	their environmental and biodiversity value. The	Performance Outcome policy.	Open Space Zone – D
enjoyment for the community"	lack of policies addressing biodiversity for open		
	space areas is a significant shortcoming, given		Areas of natural and l
	the priority focus of providing green space and		biodiversity, tree cand
	canopy cover necessary for healthy living		the built environment
	conditions.		community.
Environmental Design Considerations – I	Jrban Infill and Design		
Intensification of development need to be	balanced with the overarching need for excellence	and best practice in environmental design consideration	is for building and infra
The Code contains several good policies	There is need for the Code to give full	More emphasis on passive design solutions in the	Insert new DTS/DPF 4
that relate to environmental	consideration of sustainable design outcomes	Code.	Performance:
performance for all developments	to meet South Australian climatic conditions,	Include greater qualitative and quantitative	DTS/DPF 4.1
including solar access, minimising	including the orientation and design of buildings	requirements (as distinct from 'guidelines') for	Locate living areas, p
energy consumption and green walls,	and the overshadowing of solar panels.	building orientation, sun-shading, window/glazing	in a position that will (a) providing a minir
however these are only available		areas, in order to minimise summer solar heat gains,	on 22 June to:
through the performance assessed		so as to reduce air conditioning, and to maximise	<u>i. at least one he</u>
pathway.		winter solar access, so as to reduce winter artificial	toilet, laundry o
		heating requirements.	ii. to at least 20
		A requirement that all new dwellings have eaves will	iii. communal d
		have obvious environmental benefits.	primary private
			development.
			(b) Appropriate orier
			<u>i. maximise nort</u> <u>ii. ensure the no</u>
		1	











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d natural ecosystems, especially with a

ited application in the Code. t landscaping' should incorporate a provision

Int with a likely loss in backyard biodiversity creasing allotment sizes. to develop overlay.

n adopted in revised Desired Outcome:

# **Desired Outcome**

d landscaped open space provide for nopy cover, urban cooling and visual relief to nt for the health and enjoyment of the

astructure development. 4.1 under the heading 'Environmental

, private open space and communal open space vill receive sunlight by: nimum of two hours of direct sunlight solar time

habitable room window (excluding bathroom, or storage room windows); 20% of the private open space; and

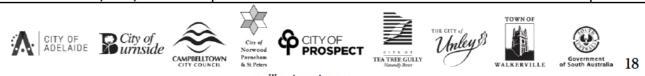
I open space, where the space provides the te open space for any adjacent residential

ientation of the building to:

orth/south facing facades;

north facade receives good direct solar radiation;

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT and Recommendation DEC 2020	
			iii. minimise east/west facades to protect the building from	
			summer sun and winter winds; iv. narrow floor plates to maximise floor area receiving good	
			daylight; and/or v. minimise the ratio of wall surface to floor area.	
Design in Urban Areas – All development	The P & D Code should provide greater policy	Greater opportunities for environmental performance	Design in urban areas module does not go far enough to include	
- Environmental Performance	guidance for encouraging passive solar design.	should be expanded upon in the Code.	policies that meet strategic targets of the state and councils by	
	No Designated Performance Features are		being stronger on low-carbon, water sensitive design, biodiverse	
	included in the Code.	In addition, a mechanism could be explored for	plantings and future potential energy sources and demand.	
		inclusion of a disclaimer at the start of every	Recommendations:	
		application, requiring an applicant to tick a box to	1. Insert new PO under the heading 'Landscaping':	
		indicate they have considered and addressed climate	PO: Landscaping incorporating local indigenous species	
		adaptation/future climate in the design of their	suited to the site and development and consistent with the	
		development.	character of the area.	
			2. Insert new PO under the heading 'Environmental	
			Performance':	
			PO: Buildings designed to utilise low carbon design and	
			construction measures.	
			3. <u>Revise PO 5.1 under the heading Water Sensitive Design to</u>	
			also include:	
			(d) incorporating waste water and stormwater re-use	
			including the treatment and re-use of grey water.	
			4. Insert new PO under the heading 'Waste Management':	
			<u>Development designed to ensure waste minimisation, re-</u>	
			use and recycling and encourages waste water, grey water	
			and stormwater re-use and does not generate	
			unacceptable levels of air, liquid or solid pollution	
			5. PO 13.2 under the heading 'Landscaping' - Ensure	
			appropriate research has been undertaken to ensure the	
			deep soil zones are of a sufficient depth and dimension to	
			ensure existing vegetation is protected and capable of being	
			planted with large canopy trees	
			6. Include policy that addresses car parking areas to be future	
			proofed for electric vehicle charging points.	
			7. <u>Apply water sensitive design principles for group dwellings</u> ,	
			residential flat buildings and battle-axe development (PO	
			<u>36.1 - PO 36.2) to all development.</u>	
Community solar or shared energy	Neighbourhood zones could encourage	Include provisions for community solar schemes with	Revise PO 4.3 and add the following at the end of the sentence:	
savings developments.	consideration of community or shared energy-	applicable location and siting requirements	"other decentralised energy generation and embedded	
The mouth consisting in starting and	saving facilities.		<u>networks."</u>	
Too much variation in design and	Design policy applying to development over 3	Provide a more consistent suite of policy requirements	Review to ensure consistently applied across land use and tenure	
environmental requirements –	storeys has now changed to only apply to over 4	for good urban design and improved environmental	types and revise extent of Code's environmental requirements	
depending on 4 or more building levels,	storeys. It is not made clear why this has	outcomes to avoid policy loopholes and gaps.	commensurate with size of site and scale of development.	
all residential development, all	occurred. Separate policy for different building			
development, residential 3 levels or less,	forms now results in inconsistent policy-varied			









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residential A summer levels and us		RECOMMENDATION FEB 2020	FURTHER COMMENT
residential 4 or more levels, group	landscaping requirements, varied WSUD		
dwellings, Residential Flat Buildings,	requirements, under 4 dwellings vs 5-19 dwelling,		
battle-axe, supported accommodation	no policy for 20+ dwellings.		
and housing for aged people			
Design General Development Policy			This is a new GDP tha
*new			consultation. The pol
			in Urban Areas GDP h
			Development (4 or m
			performance outcom
			sensitive design and
			missing DTS/DPF's in
			storage of waste bins
			driveways servicing r
			It is important that ke
			assessment tables to
			within each zone to e
			<u>assessment.</u>
			Review to ensure app
Policies do not apply consistently to	No requirement for housing (where Housing	Ensure consistency in Code for social housing	Clarify how the spatic
community housing projects where	Renewal General Development Policies apply)	occupants in terms of environmental performance	undertaken and/or tr
Housing Renewal policies remove zone	for:	residential amenity liveability and reduced household	
and General Development Policies	o tree planting	cost of living	
	o rainwater tanks (DUA 22.1)		
	o water quality objective (DUA 22.2)		
Overshadowing	Policy should include greater consideration to	Provide DTS that gives an indication of what is	Policy to protect exist
PO 3.3 need clarification of what 'unduly	ensure solar energy facilities are still able to be	reasonable overshadowing and include the word	provide parameters of
reduce' means	installed in the future. Current Council	potential and well as existing.	create confusion and
	Development Plans quantify an acceptable		considered acceptat
	access to sunlight.		Recommendation sti
Restrictions should be introduced to	Some Councils are losing current Development	Quantify solar access and include shadow diagrams	Include acceptable c
prevent new development reducing solar	Plan policies that quantify extent of shadowing	as required lodgement documentation for 2 storey	solar panels
access to adjacent properties. The	on adjoining development (including solar	and above	e.g. Sunlight to solar
provision of shadow diagrams and	panels) that is considered reasonable.		of 2 consecutive hou
modelling should be mandatory for all			on 22 June provided
development greater than one storey.			development of adjo
Outdoor Open Space			









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hat has been introduced as part of the olicy content is almost the same as the Design however does not contain policy for 'All more storeys)' and is missing some of the omes in regard to private open space, water d peak flows in downstream systems. It is also n regard to landscaping of street level parking, ins, pervious driveway surfaces and battle axe g more than 3 dwellings.

key policies are actually 'called up' in the to be used with particular development types enable them to be applied during

pplicability to all relevant land uses.

tial application of Housing Renewal will be triggered during development assessment.

isting rooftop solar energy facilities does not s on what is considered acceptable. This will nd be open to interpretation as to what is able.

still stands.

e criteria for ensuring adequate sunlight to

r panels should be maintained for a minimum ours between 9.00am and 3.00pm solar time d it does not restrict the reasonable ljoining sites

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT of
In Design in Urban Areas Table 1 –	The table should be more evenly graded -	Increase the requirements for private open space	The revised Code red
Outdoor Open Space, there is significant	requiring a 20% of the total site area to be	provision to ensure equity and liveability in private	flat rate of 24m <sup>2</sup> , rego
variation in the open space requirements	dedicated to open space.	open space provision and standardised proportion of	
depending on the site area –	<ul> <li>300m<sub>2</sub> site area – 60m<sub>2</sub> POS (20%)</li> </ul>	green space.	The justification for re
representing a reduction in requirements	<ul> <li>500m<sub>2</sub> site area – 60m<sub>2</sub> POS (12%)</li> </ul>		are soft landscaping,
for several councils.	<ul> <li>501m<sub>2</sub> site area – 80m<sub>2</sub> POS (16%)</li> </ul>		that developments m
	<ul> <li>1000m<sub>2</sub> site area - 80m<sub>2</sub> POS (8%)</li> <li>1001m<sub>2</sub> site area - 80m<sub>2</sub> POS (8%)</li> </ul>		can be further reduce
	<ul> <li>1001m<sub>2</sub> site area – 20% POS (200m<sub>2</sub>)</li> </ul>		as there are no provis
			areas from being ero
			development (e.g. sh
			We understand the 2
			policy which increase
			. ,
Design in Urban Areas Table 1 – Outdoor	Private open space for residential flat buildings	Apply open space consistently across building forms	Review open space re
Open Space	that are not apartments should align with	in the Code	
oponopado	requirements for other dwelling forms		
Front yard private open space in Design	This provides an ability to reduce rear private	It is recommended that DTS/DPF 20.3 is removed.	This has been partial
in Urban Areas DTS/DPF <del>20.3</del> [now 21.3	open space, setbacks and landscaping area,		of residential flat build
(c)] should not be encouraged	and increases the chance that the property will		
<b>C</b>	be bound by a 1.8m solid fence, which is		
	detrimental to most open suburban		
	streetscapes. There is also no reference to the		
	desired northerly aspect as a qualifying factor.		
Tree Planting and Soft landscaping		·	
There was a lot of industry opposition to po	olicy relating to 'deep soil zones', 'soft landscaping'	and 'trees / canopy cover'. We appreciate that this iterat	ion of the Code has mo
the intent to keep them. There are several	concerns we have with the consistency of how the	y will be applied, and reviewed, as we see there is potentia	al for these to be streng
Urban Tree Canopy Overlay is supported, c	and the proposed Offset scheme is discussed furthe	er up in this submission.	
Urban Tree Canopy Overlay	new	new	Elevating this to a seg
			Include City of Adelai
Tree planting provisions	Given the inability of public space to meet the	The opportunity to include a number of environmental	The policy does not g
DTS for Urban Tree Canopy Overlay	tree canopy targets, the tree planting provisions	performance techniques in a deemed-to-satisfy	cover targets set in th
	on private land is supported. <u>However these</u>	provision would also be desirable.	
	requirements should be strengthened.		<u>Apply to dwell</u>
			specified size
			Include planti
			condition of co
			<u>Set up monito</u>
			other environr
			plumbed in, re



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educes the minimum POS requirements to a gardless of allotment size.

reduced areas of POS seems to be that there ag, setback and site coverage requirements must also meet. However, these POS areas aced by subsequent development applications visions that seek to protect soft landscaping roded by future ancillary structures and sheds, pools etc) like there is for POS.

24m<sup>2</sup> is being reviewed and support a revised uses the minimum POS.

e requirements

ally addressed, now only enabled at the front uildings.

naintained these policies and demonstrates ngthened over time. The creation of the new

eparate layer is supported

laide

t go far enough to meet the overall green the 30-year plan or individual council targets.

elling alteration and addition applications over threshold.

nting of tree and its ongoing retention as <u>consent</u>

Set up monitoring and enforcement of tree planting and other environmental measures (ongoing rainwater tank plumbed in, retention of soft landscaping)

		Under Assessment Pro one small tree (with o area of 10m <sup>2</sup> around t only needs to be approv automatically approv larger sites it's only sli 2% canopy and soil an For example, under the require 1 medium tree only produce 3-11% co With most Councils he this is the minimum a have enough collective
		area of 10m <sup>2</sup> around th only needs to be approved automatically approved larger sites it's only slipt 2% canopy and soil ar For example, under the require 1 medium trees only produce 3-11% co With most Councils has this is the minimum a have enough collective
		one small tree (with a area of 10m <sup>2</sup> around th only needs to be appr automatically approv larger sites it's only sli 2% canopy and soil ar For example, under the require 1 medium tree only produce 3-11% co With most Councils ho this is the minimum a have enough collective
		one small tree (with a area of 10m <sup>2</sup> around t only needs to be approved automatically approved larger sites it's only sli 2% canopy and soil are For example, under the require 1 medium trees only produce 3-11% con With most Councils he this is the minimum a have enough collective
		only needs to be appr automatically approv larger sites it's only sli 2% canopy and soil ar For example, under the require 1 medium tree only produce 3-11% co With most Councils ho this is the minimum a have enough collective
		area of 10m <sup>2</sup> around th only needs to be appr automatically approv larger sites it's only slip 2% canopy and soil ar For example, under the require 1 medium tree only produce 3-11% co With most Councils ho this is the minimum a have enough collective
		automatically approv larger sites it's only sli 2% canopy and soil ar For example, under th require 1 medium tree only produce 3-11% co With most Councils ho this is the minimum a have enough collective
		larger sites it's only sli 2% canopy and soil ar For example, under the require 1 medium trees only produce 3-11% co With most Councils has this is the minimum a have enough collective
		2% canopy and soil ar For example, under th require 1 medium tree only produce 3-11% co With most Councils ha this is the minimum a have enough collective
More comprehensive and consistent increased		For example, under the require 1 medium tree only produce 3-11% co With most Councils have this is the minimum a have enough collective
More comprehensive and consistent increased		require 1 medium tree only produce 3-11% co With most Councils ha this is the minimum a have enough collectiv
More comprehensive and consistent increased		only produce 3-11% co With most Councils ha this is the minimum a have enough collectiv
More comprehensive and consistent increased		With most Councils have enough collective
More comprehensive and consistent increased		this is the minimum a have enough collectiv
More comprehensive and consistent increased		have enough collectiv
More comprehensive and consistent increased		•
More comprehensive and consistent increased		
More comprehensive and consistent increased		change.
more comprehensive and consistent increased	Increase the requirements for new development (of all	This has been revised
tree canopy provision is required.	forms) to have an adequate deep soil area that	10% starting point up t
Policy is not applied in Code to buildings of 4 or	allows for plantings that potentially achieve at least a	Residential Developm
more levels or to community and social housing	potential tree canopy cover of 15% of the site.	1. Increase perce
development.		could still have
	Increase the percentage of soft landscaping across	or 20% of the si
Planting opportunities on public spaces, (e.g.	sites and apply these to buildings of 4 or more storeys	more consister
reserves and streets) is limited in Local	and to community housing developments	are striving to
Government Areas and if any meaningful		2. Apply these ta
advances on tree canopy cover are to be made,		3. Apply these ta
this needs to occur on private property.		4. This only applie
		amenity is the
		- this should b
The criteria for deep root zones differs between	Consistency should be provided between differing	Residential developm
buildings of 4 or more levels and those of 3 or	building forms and across all development types	introduced Urban Tree
less levels, and the requirement for soft		requirements for trees
landscaping only applies to buildings of 3 levels		Multi-storey developm
or less. Minimum side setbacks at ground level		of a minimum of 10m <sup>2</sup>
of 3m may not achieve effective planting		example, in a scenario
spaces.		less than the 1 mediur
The maintenance of existing 7% deep soil area,		the application - does
<b>°</b> .		can they have 1 small
		These requirements o
		ancillary developmen
		occur to the same ext
	Policy is not applied in Code to buildings of 4 or more levels or to community and social housing development. Planting opportunities on public spaces, (e.g. reserves and streets) is limited in Local Government Areas and if any meaningful advances on tree canopy cover are to be made, this needs to occur on private property. The criteria for deep root zones differs between buildings of 4 or more levels and those of 3 or less levels, and the requirement for soft landscaping only applies to buildings of 3 levels or less. Minimum side setbacks at ground level of 3m may not achieve effective planting spaces.	tree canopy provision is required. Policy is not applied in Code to buildings of 4 or more levels or to community and social housing development. Planting opportunities on public spaces, (e.g. reserves and streets) is limited in Local Government Areas and if any meaningful advances on tree canopy cover are to be made, this needs to occur on private property. The criteria for deep root zones differs between buildings of 4 or more levels and those of 3 or less levels, and the requirement for soft landscaping only applies to buildings of 3 levels or less. Minimum side setbacks at ground level of 3m may not achieve effective planting spaces. The maintenance of existing 7% deep soil area, and only for medium to high rise development

CITY OF ADELAIDE City of ADELAIDE City of Competitions of City of City of Norwood City of Norwood City of Norwood Paracham City of Norwood City of Norwood Paracham City of Norwood Paracham City of Norwood City of Norwood Paracham City of Norwood City









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Private Certifiers to dismiss tree planting s as minor variation

Provisions PO1.1 the DTS requirements contains a spread of 2m canopy minimum) and a soil the tree. This means that the tree canopy proximately 1% of the site in order to be oved, and the soil area only 2% of the site. For slightly larger, so the maximum minimum is

area 7.5% of the site.

the proposed P&D Code, a 450m<sup>2</sup> block would ee (4-8m spread) which at maturity would cover on that block.

having far more private land than public, if approach applied across the state we will not tive cover to build resilience to climate

ed to introduce a smaller (<150m<sup>2</sup>) site and o to 25% >45m<sup>2</sup> sites, and applied to ment up to 3 storeys.

centage of soft landscaping across all sites, ve the same percentage for all sites. (i.e. 15% site, regardless of the site size). This would be ent and fair considering on public land we o meet 20% canopy targets.

targets to buildings of 4 or more storeys. argets to community housing developments. blies to new dwellings. Impact upon site he same for additions and ancillary additions be equally applied.

ment in Neighbourhood Zones pursuant to the ee Canopy Overlay encompasses es relative to sites.

oment of 4 storey or more requires 'deep soil' m<sup>2</sup> for sites <300m<sup>2</sup> and 7% otherwise. For rio of 300m<sup>2</sup> block, 7% site area = 21m<sup>2</sup>. This is um tree/30m<sup>2</sup> deep soil. There is confusion in es this mean they do not require a tree? Or Ill tree? This requires clarification.

only apply for new dwellings. Additions and ents (outbuildings, garage, carport etc) can xtent as new dwelling and impact yard space

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT of
			and provision for tree
			requirements.
			1. Equally applie
			In these limited 7% D
			achieved is approxim
			there needs to be inc
			in both cases the size
			2. Increase the c
			3. Minimum plar
			conditions to
			and maintena
Missed opportunity for strategic linkage	Greater information is available about	Consider urban heat mapping as an overlay	Urban heat mapping
of tree canopy and landscape area	importance of tree canopy – this is not utilised in		there was the creatio
requirements	the P& D Code.		
Table 1 -	Does not include Residential Flat Building but	Include consistent requirements and define policy	NO definition of apart
Outdoor Open Space	includes Apartments for which there is no	terminology in Land Use Definitions in the Code	definition or remove r
	definition.		
Greening in non-res development	Policy should incorporate sustainable best	Code policy should be enhanced for car parking areas	Policy improvement f
	practice regarding shade cover from trees in	(particularly non-residential open lot parking in retail,	<u></u>
	carparks. (Policy similar to that used in other	business and service outlets) to have a minimum	
	states/countries	area of tree shading. Suitable tree species	
	regarding minimum shade cover areas could be	with large canopy cover are required.	
	considered for use in the Code.)		
Development	Lack of DTS criteria with only some PO having	Revise Code to ensure sufficient policy detail and	
	DTS criteria	clarity is available to all assessment pathways.	
Landscaping	It is unclear whether the 4 x 4m deep soil in front	Make it clear if tree needs to be at the front of the	Further clarification re
DTS/DPF 10.1	of building has to accommodate a tree?	building to soften the streetscape.	
All development - 4 or more levels	Where are the locations where multi storey	Delete this exception from the policy or define	No change to DTS/DP
DTS/DPF 10.2 refers to multi storey	development is desired to have full site	spatially where this exception applies.	site coverage is requi
development incorporating deep soil	coverage?		the application of the
zones and trees, except in a location or			<u></u>
zone where full site coverage is desired.			
DTS/DPF 10. 2 and 21.2 Tree planting	Will there be any guidance provided for	Provide clear practice directions on how this policy is	No changes.
identifies small, medium and large trees	assessing officers as to which species of trees	to be assessed and also how it is to be enforced and	
by mature height and spread	will meet each of these criteria and which one	maintained so as to not undermine the intent.	Concerns that there
by matare height and oproud	are suitable and unsuitable outside of those		approved. <u>Devise me</u>
	identified in the Regulations?		dispensed with as mi
	This is going to be very difficult for planning staff		the development.
	to assess without clear guidance as very few will		
	have expertise in tree species. The position of the		Use the Botanic Gard
	plantings as well as certain species have the		lists to develop suitat
	potential to cause tension with neighbouring		
	property owners also.		
		1	

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ees, and need to be subject to the same

lied for additions and ancillary developments. DRZ areas the minimum canopy that could be imately 1-6%. To get increased canopy cover ncreased requirements for deep soil area and ze and / or number of trees.

deep root zone area

anting size of tree and mandatory standard o highlight and reinforce ongoing provision <u>nance</u>

ng was not made into an overlay, however tion of an Urban Tree Canopy Overlay.

artments in revised P & D Code. Include e reference to an undefined land use.

t for carpark shading could be enhanced.

required.

DPF 13.2 – if it cannot be specified where full uired delete this clause so it does not reduce he deep soil zone policy.

e will be minor variations on the size of tree nethods to ensure tree planting is not minor variation and is retained for the life of

rdens of SA Plant selector and local Council able plant species by zone, postcode.

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT
With tree planting provisions included in	This should be supplemented in Code with	A Practice Guideline or Direction could provide details	Some resources that
Code - reduced to a quantitative	greater qualitative provisions.	of species selection - local provenance water	Resilient East
requirement – should also be qualitative		tolerant non-invasive root systems etc	- compiled fr
provision			decisions ma
			and a dynam
			Unley is working
			will be availab
DTS/DPF 10. 2 and 21.2 Tree planting	The Code and Act contains no provision to	New mechanisms (such as additional conditions on	No change has occu
	ensure that these trees (and future tree canopy)	all new residential development and an inspection	Same recommendat
	will be maintained, monitored or enforced.	fee) to ensure the planting and ongoing care of these	mechanisms apply.
	Will the trees need to be a certain size at	trees is undertaken and enforceable to ensure	
	planting?	longevity of planted trees.	
DTS/DPF 10.1 to 10.4 (landscaping) apply	Unlikely to achieve State targets for increased	Revise application of tree planting policy to achieve	Review equity and sc
only to buildings of 4 or more levels and	canopy cover without broader application.	equity and consistency towards	
DTS/DPF 21.1 to 21.2	Minimum requirements should be specified for	green canopy across all forms of development.	Apply to dwelling alte
(landscaping) apply only to residential	tree and vegetation GI on all sites where any		
development 3 buildings or less.	development is proposed, including alterations	Minimum requirements should be determined by the	
Other forms of development including	and additions, regardless of the size of the	size landscape and location of the site not only the	
dwelling extensions, apartments, SAHT	development. (Landscape and number of	size of the development.	
and Housing Renewal development, non-	existing established trees and vegetation should		
residential land uses do not have this	form part of the quantity requirement.)		
requirement in the Classification tables.			
Transport, Access and Parking	This requires greater clarification for this to be	Code needs clarification about removal of, or damage	No change. DTS/DPF
Vehicle Access PO 3.5 and DTS/DPF 3.5	effective and consistent assessment of the	to, street trees and what classifies as a mature tree	street trees – not dar
what classifies as a 'mature' street tree	impact of development on 'mature' street trees.		manure street trees
	Juvenile street trees should not be accepted as		
	able to be impacted/ damaged/ removed due		
	to development.		
Only the Residential Neighbourhood Zone	The Suburban, General and other	Revise all neighbourhood zones to include similar	Incentives for retainin
makes reference to <u>spaces around</u>	Neighbourhood Zones provide no reference to	policy at zone level	Tree Canopy Overlay
buildings for trees and other vegetation	the maintenance of non-regulated trees on		
No provisions in Code seeking objective	private	An additional desired outcome should be added to	Further policy should
of retaining existing trees and	land that contribute to amenity, shading and	encourage	previous recommend
landscaping where possible	cooling.	the retention of mature trees on development sites	
	Demolition on existing housing allotments		
	typically removes all mature trees and		
	vegetation, with no consideration for retention of		
	large trees on redevelopment sites.		
Lack of greening objectives for public	This is a significant policy gap as it is intended to	Review Code and other policy instruments (including	Design Standards no
realm	focus increasing importance on this area under	Design Standards) to increase policy for enhanced	
	the new Act.	public realm, including protecting and enhancing	
		street trees.	







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at might be helpful: st has finalised a 'Street Tree Species Guideline' from local eastern arborists to support

nade about tree selection (this is a good start mic list)

king on a Tree Species Guide for residents that able from 27 January 2021.

curred.

lations for developing enforcement

scalability of planting requirements.

Iterations and additions.

PF 3.5 only protects against removal of mature lamage to street trees and no definition of es provided.

ning existing vegetation is contained in Urban <u>ay.</u>

Id be added to Desired Outcome as per ndations.

not developed.

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT of
	Act refers to Design Standards which have not		
	been produced to address public realm and		
	infrastructure issues.		
Part 8 – Administrative Definitions	Definition should exclude elements that do not	Further clarify in definition that this refers to actual	This requires further o
"Soft landscaping" definition only refers	reduce the urban heat island effect or	planted areas – not just capable of supporting plant	and is there any com
to landscaped areas that are pervious	perviousness (such as artificial turf or	species	, ,
and capable of supporting the growth of	compacted gravel)		
plant species	Include definition of "living green landscaping"		
	separate from "soft landscaping		
Outdoor Advertising	New provisions appear to disregard the impact	Suggest inclusion of policy called up in Classification	No reference to tree
outdoor navoraonig	of advertising signs on trees.	Tables for all forms of advertising that can impact on	
		trees (roots and canopy):	
		Advertisements and/or advertising hoarding should	
		be sited to avoid damage to, or pruning or lopping of,	
		on-site landscaping or street trees.	
Regulated and Significant Tree Policy		on site landscaping of street trees.	
· · · · · · · · · · · · · · · · · · ·	chanisms not just for planting new trees in infill develope	nents, but in retaining mature vegetation, ensuring post-establis	shment compliance and
Regulated and Significant Tree Overlay.	The recognition of regulated and significant	Strengthen Significant Tree and Regulated Tree policy	Change made – Reg
The draft Code presently contains a	trees is transitioned to the Code, however the	within the draft Code to reflect current policy	wording revised and
. ,	policy wording has been revised and		
single Regulated Tree Overlay. This is to		Criteria for tree-damaging activity should reflect	which can give more
be contrasted with current Development	assessment considerations for the following	current controls including assessment criteria.	Tree damaging activ notified.
Plan policy which distinguishes between,	have been removed:	Reinstate policy such as:	nounea.
and provides separate policy for both	o Indigenous to the locality (for regulated and	o Indigenous to the locality	
regulated and significant trees.	significant trees)	o Important habitat for native fauna	
There is concern that regulated tree	o Important habitat for native fauna (for	o Important contribution to the character or amenity	
policy has been consolidated within a	regulated and significant trees)	of locality	
single Regulated Tree Overlay with no	o Important contribution to the character or	o Part of a wildlife corridor	
higher order of policy relating to the	amenity of locality (significant trees)	<u>o Biodiversity maintenance)</u>	
proposed removal of a regulated tree	o Part of a wildlife corridor (significant trees)	o Notable visual element	
that is a significant tree.	o Biodiversity maintenance (significant trees)	Development should have minimum adverse effects	
Stronger protection is required for	o Notable visual element (significant trees).	on regulated trees.	
regulated and significant trees as one of			
the highest biodiversity priorities due to		Development should be undertaken with the	
changing climate.		minimum adverse affect on the health of a significant	
		tree.	
The proposed criteria for a tree	The test for damaging or removing regulated	This must be rectified if the stated intention is to	Changes made to be
damaging activity that is not to be	and/or significant trees should require	ensure that the Code affords the same level of	
undertaken with other development does	applicants to demonstrate that all other	protection to such trees as presently exists under the	
not reference the current test that "all	reasonable alternatives have been found to be	<u>Development Plan.</u>	
other reasonable remedial treatments	ineffective		
and measures must first have been			
determined to be ineffective". The			
omission of this requirement, at least in			









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er clarification, same recommendation stands, ompliance if it doesn't occur?

ee damage – revised policy required.

d incentivising greening on private land.

egulated and Significant Tree Overlay policy nd more closely reflects the existing wording re confidence in interpretation.

tivities (prune, lop, remove) will not be publicly

better align with current policy.

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT
respect of significant trees, would result			
in a weakening of the current level of			
protection.			
"Elements" of a development. Lodgement	There is no reference to the Regulated Trees	There should be a trigger for the relevant authority to	Still same recommer
information and Assessment Pathways	Overlay in the Accepted development or DTS	consider whether the proposed accepted or DTS	For example:
	development tables, and therefore the reliance	development may result in tree damaging activity	In the mechanics of
	is on the applicant to identify, disclose and apply	(and therefore calling up the Regulated Tree Overlay	there a regulated or
	for 'tree damaging activity' as a separate class	policies)	subject land?" for ev
	of development. Rarely does this occur in	· · · ·	assessment pathwa
	practice and regulated or significant trees are, in		Regulated or Signific
	the most part, picked up at the assessment		correct policy is pulle
	stage by council staff.		
Water Sensitive Urban Design		1	
Need to broaden the spatial application	Performance outcomes should apply equitably	Review is recommended of all WSUD policies through	Review policy
of WSUD under the Code	to group dwellings, residential flat building and	the Classification Tables to ensure greater application	
	battle-axe dwellings, multi storey, single storey,	of these policies and consistency in their use.	
	Housing Renewal and other land uses	· · · · · · · · · · · · · · · · · · ·	
Design in Urban Areas – Water Sensitive	Requirements for Water Sensitive Design and	Review all forms of land use against the Classification	Review policy
Design and Landscaping policy for non-	landscaping appear to be less onerous for non-	Tables and Design in Urban Areas provisions to ensure	
residential land uses.	residential land uses than for residential, where	effective and equitable application of policy for:	
	arguably there may be greater risk (or	Managing water pollutants	
	opportunity for sustainable water and greening	Increasing on-site water capture storage and	
	measures) for larger commercial, industrial and	<u>re-use</u>	
	institutional land uses.	Appropriate site coverage and permeable	
		space	
		Soft landscaping	
		Tree planting and deep soil zone requirements	
WSUD	Greater uptake of water sensitive design could	Review policy in conjunction with Water Sensitive SA.	Review policy
Consideration of water resources and	occur through greater use of compulsory		
management is a critical component in	permeable paving, rain gardens, on-site		
planning for climate change.	wastewater reuse systems in multi-storey		
	development and underground rainwater		
	storage for green space irrigation.		
Water Sensitive Design DTS 22.2	Stormwater Management Plan stormwater	Amend Code to ensure clarity and consistency in how	Review policy
Stormwater Management Plan	runoff outcomes seem difficult to assess and to	this provision is to be applied.	
eterminater management han	determine what is average also why just for 5 –		
	19 dwellings		
Water tanks	Retention promotes water re-use but does very	Need to provide for retention and detention to support	Review policy
Some Development Plans contain polices	little in limiting the amount of water discharged	the WSUD objectives	
requiring stormwater detention systems	from a development during a storm event.	Detention systems should be available as a deemed-	
to be installed for all new dwellings in	Detention facilities reduce the immediate	to-satisfy criteria and designated performance	
defined areas.	impacts on natural waterways and drainage	features, particularly in vulnerable catchments.	
	systems.		
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nendation.

of the Code it needs to pull up the question "Is <u>or significant tree on or within 20m of the</u> every proposed development in every vay. This is to ensure the presence of a ficant tree is not inadvertently missed and the <u>illed up to enable its assessment.</u>

P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT
The Code includes a detention			
requirement for developments			
comprising more than 5 dwellings,			
however the vast majority of applications			
in many Council areas are for less than 5			
dwellings. For developments comprising			
less than 5 dwellings, the Code suggests			
that 2000-5000L retention tanks			
connected to toilets or the laundry and			
the provision of minimum pervious areas			
is adequate to manage peak stormwater			
runoff flows and volumes.			
Council Vegetation, Trees, Infrastructure	and the Business Use of Public Roads		
The P & D Code lacks policies relating to	Amendments to Sections 221 and 222 of the	The Code and Design Standards should contain	Still an issue that is a
the public realm or Design Standards,	Local Government Act 1999 (LG Act) which are	appropriate processes and policy that relates to these	timelines.
which formed part of the Expert Panel's	not yet operational will be effected by Part 7 of	issues so that they may be appropriately considered	
recommendation that open space and	Schedule 6 to the Planning, Development and	by the various relevant authorities determining	
public realm planning and design	Infrastructure Act 2016.	applications for planning consent.	
matters be embedded within the new	Once operative, these amendments will have		
planning system.	significant implications for Council vegetation		
The P & D Code should not be	and infrastructure in the public realm, together		
implemented until relevant policy is	with the use of public roads for business		
drafted addressing public realm matters	purposes.		
and Design Standards are developed for	Councils are concerned that private certifiers will		
reference in the Planning and Design	effectively assume control for approving work in		
Code.	the public realm, including the removal of street		
If the alteration of a road or the use of a	trees.		
road is approved by a development	Non-Council accredited professionals will be		
authorisation under the PDI Act, a person	able		
will no longer require an authorisation	to approve vehicle access to car parking spaces		
from the Council under Sections 221 or	within 2 or more metres of an existing street tree		
222 of the LG Act	with no opportunity for Councils		
	arborists/horticulturalist to have any input.		
DTS / DPF 23.4	This policy needs to better reflect the	Appropriate measures need to be put in place to	Still an issue that is a
Vehicle access to designated car	characteristics of the particular street tree in	direct these issues be resolved prior to the lodgement	timelines.
parking spaces:	question with respect to its own TPZ. Two metres	of a development application	
	might be acceptable for a bottle brush but not		
(b) 2m or more from a street tree unless	for a 100 year old gum. It is also unclear where		
consent is provided from the tree owner;	the 2m setback is measured from (i.e. the trunk,		
What measures will be put in place to	the canopy, etc.)		
ensure private certifiers do not accept	The impacts to trees would be dependent on		
access and street tree implications as a	species type, age, surrounding growing		
"minor variation" from DTS criteria?	conditions, health and condition. The Australian		





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P & D CODE SECTION	COMMENTS FEB 2020	RECOMMENDATION FEB 2020	FURTHER COMMENT of
To not include any local government	Standard AS4970-2009 provides guidance to		
technical advice to determine position	encroachment considerations. However, this		
and the appropriate setbacks will have	Standard still needs input from a technically		
significant consequences to the urban	qualified person as it is not a simple "one rule for		
forest and potentially subject Councils to	all". There is a risk to the urban forest by allowing		
unacceptable risk.	these decisions to be made by private planners		
	who may not have the technical skills to make		
	such decisions.		
Hazards			
Hazards (Flooding) Overlay - policy	The Desired Outcome in the Hazards (Flooding)	Policy to reflect design standards for floodprone land	Floodplain mapping
	Overlay should refer to the need to consider how	taking into account projected intensity and frequency	
	flood hazard will change given the projected	of extreme weather events.	Clarity of scope of ne
	increasing frequency and intensity of extreme		will this modelling tak
	weather events.		frequency of extreme
The draft P & D Code does not contain	The goals of the State Planning Policy 15 (Natural	Redundant Hazards (Flooding) Overlays should be	This has been improv
accurate mapping of floodplains and	Hazards) has not been achieved.	removed from the Code and replaced with accurate,	maps and improved
enables Deemed to Satisfy pathways for	This places an unacceptable level of risk in the	up to date floodplain maps with appropriate policy	
new development outside the Overlay.	proposed flooding policy.	included to address both flood depths and flood	Funding received to a
		hazard risk. Current Development Plan policy that	mapping for State.
		manages flood hazard risk should not be removed	
		from the applicable policies applying to new	
		development through the Code.	
Water Resources Overlay	-		
Water resources overlay only used in	Not consistently applied	Consistently apply overlay to all watercourses	Improved application
some locations to protect watercourses			
Native Vegetation	1		
Native vegetation	A missed opportunity is little/no support for the	This issue could be covered by a 'proposed native	Not achieved - recor
	desired outcome to restore areas of native	vegetation corridors overlay (or similar)' where native	
	vegetation. The native vegetation overlay is	vegetation restoration is considered as a preferred	
	limited and does little to reflect existing urban	use of the land	
	areas comprising native vegetation, nor does it		
	show how these isolated remnant vegetation		
	areas can be connected and made more		
	sustainable via vegetation corridors.		
In the Native Vegetation Overlay, Desired	However, there are no related performance	Performance outcomes could be added relating to	Providing direction fo
Outcome I refers to restoring areas of	outcomes that refer to restoring native	enhancing native vegetation similar to that included	extensions/connection
native vegetation.	vegetation.	in the State Significant Native Vegetation Areas	
		Overlay.	



and Recommendation DEC 2020 g overlay and policy improved. new floodplain mapping exercise is required – ake into account projected intensity and ne weather events? oved with incorporation of available floodplain ed policy. o develop and consistently adopt floodplain on ommendation as per previous. for vegetation corridor tions as a desired use of the land.