Informing TWA's Dark Sky Tourism Products & Strategy

March 2021







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Scope of Engagement

Research Objectives

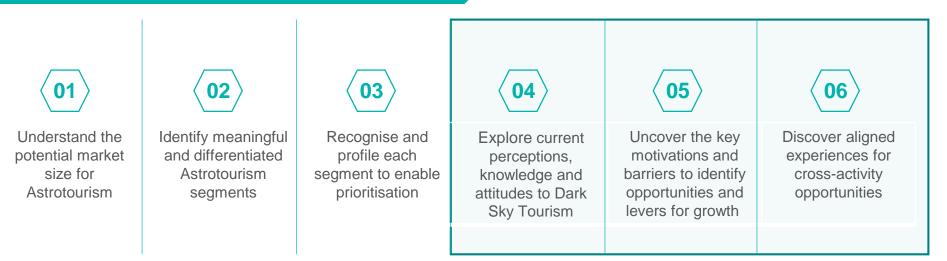
Tourism WA, in collaboration with Astrotourism WA, are conducting research to inform the strategic development and marketing of Western Australia as a Dark Sky Tourism destination.

This research explored the current perceptions, knowledge and attitudes to Dark Sky Tourism, looked into **drivers and barriers** to partaking in Dark Sky Tourism, along with discovering any **cross-activity opportunities** to inform **product development** and **marketing strategy.**

Initial quantitative research was conducted in February 2020 to inform the development of key target segments, and to inform the next phase. This report presents the findings of the **second stage of research**, focusing on **objects 4 to 6** below.



The specific objectives of this engagement are:





Methodology

After the segmentation workshop took place on the 17th of March 2020, a decision was made to run quantitative research on those who have the highest interest and knowledge of astronomy. This segment was called 'Astro Enthusiasts'.

To target this sample of Astro Enthusiasts in the quantitative research stage, key screening statements were identified, and used to reach the target audience.

Four key questions were identified:

- · I like to share my thoughts on the topic of space with others
- I have a good level of knowledge in astronomy
- I have a good level of knowledge in astrology
- I know of **Astrotourism towns** in my state

To qualify for the Stage 2 survey, respondents **could not disagree** with any of these statements.

A total **n=751 Astro Enthusiasts** qualified and completed the survey.

The 15 minute online survey was conducted between the 8th and 24th of February 2021. The data (including screen out data) was weighted by age, gender and region to reflect 2016 ABS Census statistics.



| n= & % (weighted) | Location | | | | | | | | |
|----------------------|----------|------|-----|------|-----|------|-------|------|--|
| | NSW | | VIC | | WA | | Total | | |
| | n= | % | n= | % | n= | % | n= | % | |
| 18 to 34 | 72 | 40% | 75 | 40% | 80 | 40% | 227 | 40% | |
| 35 to 54 | 82 | 37% | 85 | 37% | 87 | 39% | 254 | 38% | |
| 55+ | 93 | 23% | 90 | 23% | 84 | 21% | 270 | 23% | |
| Male | 120 | 57% | 122 | 58% | 113 | 53% | 355 | 57% | |
| Female | 130 | 43% | 128 | 42% | 138 | 47% | 396 | 43% | |
| Total | 250 | 100% | 250 | 100% | 251 | 100% | 751 | 100% | |



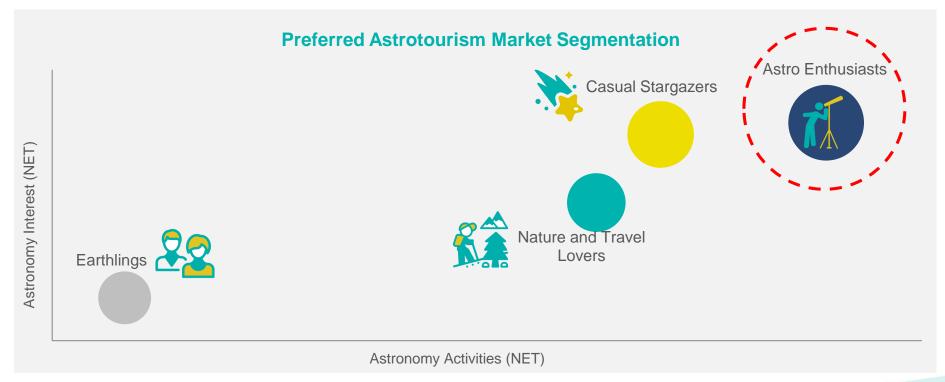
Stage 1: Segmentation recap

The first stage of the research undertaken at the start of 2020 was to inform key decisions and priorities. This was done by understanding the potential market and building a picture of the different types of potential Astrotourism targets in order to better prioritise, attract and target them. Two segmentation models were created with the below **four segment model** being the recommended approach.

Overview of the Astro Enthusiasts segment in stage 1:

- o Highest level of interest in astronomy related topics
- $\circ~$ Have done, or more likely to do astronomy related activities in the future
- $\circ~$ Most frequent users of astronomy-related equipment

- o Planning or open to astro-related travel
- Youngest segment
- Represent 35% of the market





Stage 1: A summary of the four segments



Astro Enthusiasts

- Highest level of interest in astronomy related topics
- Have done, or more likely to do astronomy related activities in the future
- Most frequent users of astronomy-related equipment
- Planning on or open to astro-related travel
- Youngest segment





Casual Stargazers

- High interest in astronomy, particularly broader topics
- Prefer travelling to cities than regional areas
- High ownership, but low usage of camping gear
- Less likely to be open to astro-related travel
- o Lowest household income



Nature & Travel Lovers

- Very high interest in travel (regional / remote areas)
- Enjoy being out in nature, hiking and escaping the city
- Very low ownership and usage of astronomyrelated products
- Surface level interest in space / astronomy
- Lack knowledge in more specific astronomy topics



Earthlings

- No usage of astronomy related products
- Very low interest in anything astronomy-related
- o Low interest in travel
- Have not / do not plan to do any astronomy activities
- $\circ~$ Older skew, with 38% retired



Executive Summary

Executive Summary – Branding and Communications

| | Insight | Implication | Thought Starter |
|---------------------------|--|--|--|
| Awareness and Interest | Interest in Dark Sky Tourism (54% high interest) outpaces current familiarity (40% aware of the term). This extends to specific Dark Sky Tourism activities. | There are clear knowledge gaps relating the Dark Sky Tourism terminology and the concept more broadly. Addressing these gaps could help drive growth for Dark Sky Tourism. | Focus on building awareness familiarity with the concept. Aligning the concept with popular events, locations and experiences in current communications and centralizing the information are potential quick wins. |
| Positioning | Astro Enthusiasts look for opportunities to relax and explore in nature when on holiday, and the Dark Sky Tourism is soon as a unique and different way to realise these benefits. | Key benefits offer a compelling value proposition to complement interest in astronomy and unique experiences among the target audience, particularly as they grapple with life after-COVID. | Position Dark Sky Tourism as an opportunity to switch off, relax and engage in new and unique experiences, as a value add to engaging with core astronomy hobby. |
| Target Audience | Awareness, interest and engagement with Dark Sky Tourism is consistently higher among males, those aged 34- 54 and families (particularly young families). Those 55 or older represent the weakest opportunity. | Within the key segment of Astro Enthusiasts, this audience (i.e. males, 35-54 year olds and families) represents the strongest and most immediate opportunity for TWA. | Prioritize reaching this key audience with marketing and communications. These groups are likely to look to social media and other passive channels for information rather than official tourism sources. |



Executive Summary – Product

| | Insight | Implication | Thought Starter | |
|---------------------------|--|---|--|--|
| Activities of Interest | Astro Enthusiasts are typically interested in a broad range of Dark Sky Tourism activities. They are more active and inquisitive on holidays generally. | A well-rounded experience would likely strengthen the appeal and perceived benefits of Dark Sky Tourism. | Promote the range of wide activities and experiences available within the Dark Sky Tourism category, and how it can complement or enhance general travel. | |
| Influential activities | Dining under the stars, viewing wildlife and visiting natural attractions are compelling activities and are most likely to be cited as activities that influence travel decisions. | Broadening the offering of natural attractions such as the Staircase to the Moon and Hybrid Solar Eclipse (both with strong interest levels) could increase appeal and ability of Dark Sky Tourism to drive tourism. | Feature key natural attractions, wildlife opportunities and 'accessible' activities (I.e. dining) and build experiences around these influential activities. | |
| Product Packaging | Nature-based, astronomy-based and more traditional tourism-based activities appeal to different audiences, though there is significant overlap among those with higher interest overall. | Developing and marketing multiple products and experiences affords TWA the opportunity to grow the potential audience (by diversifying the offering) and frequency of engagement (through more experiences on offer). | Group activities and packages to align with key themes: Nature-based (e.g. natural attractions, wildlife) Astronomy-based (e.g. photography, stargazing, observatory) Traditional tourism-based activities (e.g. dinner under the stars, accommodation, performance, hot springs) | |

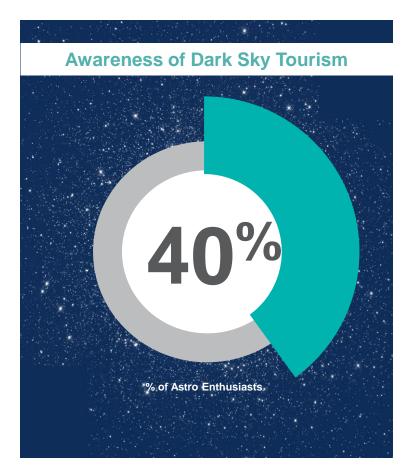


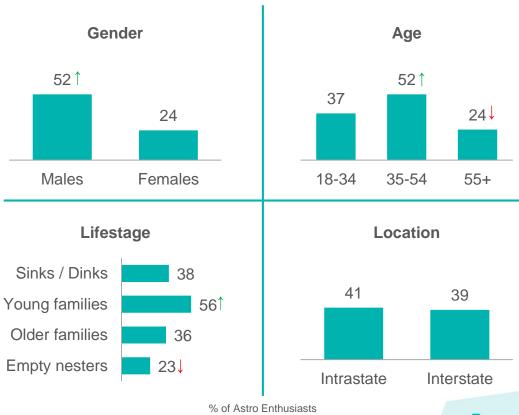
Awareness and Perceptions of Dark Sky Tourism

Four in Ten Astro Enthusiasts are aware of the term **Dark Sky Tourism**



Awareness of *Dark Sky Tourism* is higher among males, those aged 35 to 54 and young families. Awareness is largely consistent among interstate and intrastate audiences.



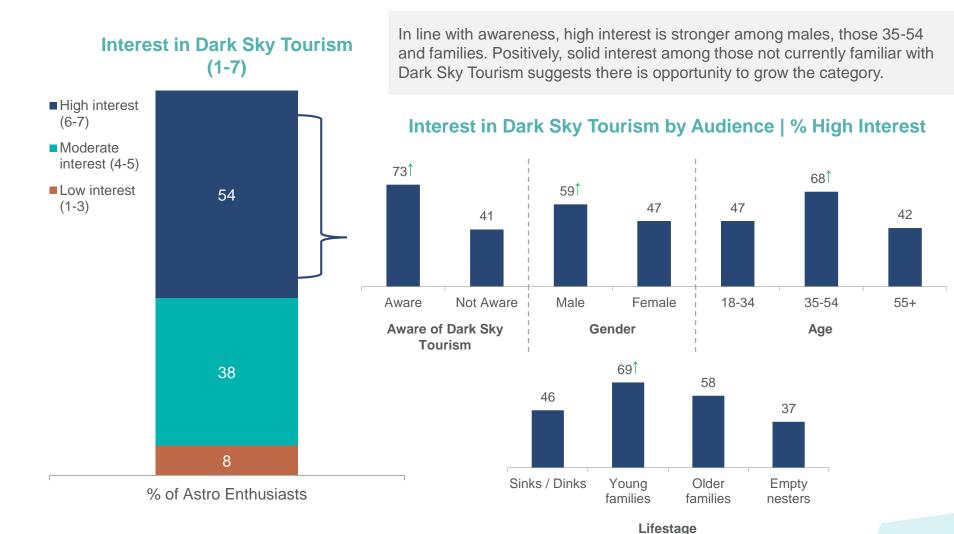


% Awareness by Audience

n=751 Q9: Before today, had you heard of the term dark sky tourism? ↓↑ Significant difference between segments at 95% confidence

There is substantial interest in Dark Sky Tourism among the target segment of Astro Enthusiasts







There is strong interest and positivity towards the concept of Dark Sky Tourism

66

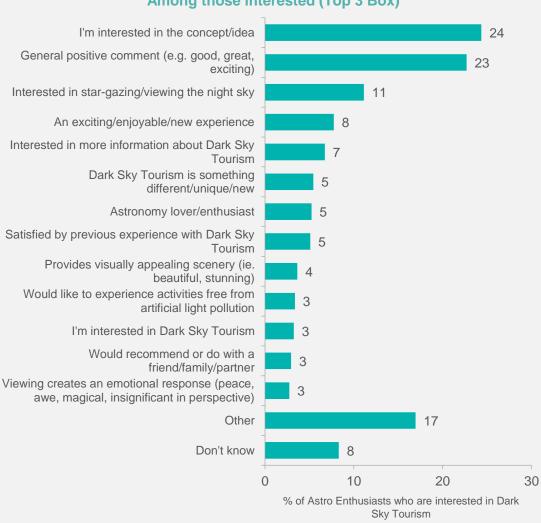
I think it would be a good experience especially since we have all been mostly inside for the good part of the last year. – Sydney

66

I've never heard of this but I will look into it and see where I can go to find this information online. – Victoria

66

I really love astrology and astronomy and find the stars really interesting. It's also not something I can look at in my daily life as I live very close to the city with a lot of light pollution. – WA



Reasons for Interest in Dark Sky Tourism Among those interested (Top 3 Box)



n=539

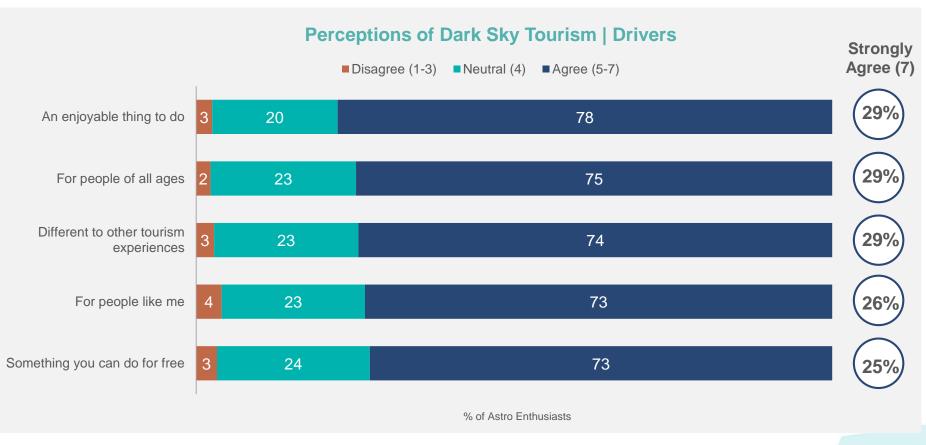
Q11: What are the reasons you gave that score? How would you describe your level of interest to a friend?

↓ Significant difference between segments at 95% confidence

Note: responses less than 3% have not been charted.

Dark Sky Tourism is seen as **enjoyable**, **accessible**, **affordable** and **different** to other experiences

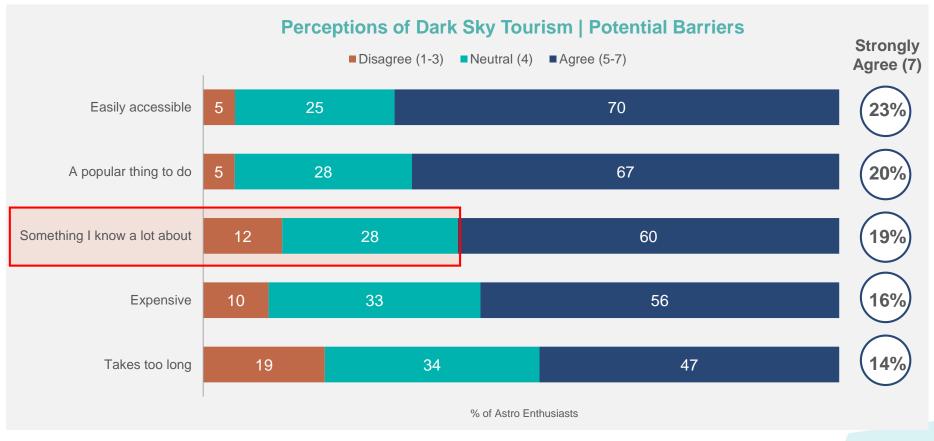
In line with interest, those aged between 35-54 and families (particularly young families) have stronger positive perceptions of Dark Sky Tourism. Males are more likely to say it is an 'enjoyable thing to do' compared to females.





Lack of knowledge could be a barrier to engagement, with lower agreement compared to other perceptions

Compared to other perceptions, the target audience was slightly less likely to agree that Dark Sky Tourism is easily accessible or popular. Younger audiences (i.e. those under 55 years) are more likely to perceive Dark Sky Tourism as expensive and time consuming, potentially reflecting greater familiarity with the concept and experiences. High neutrality in these areas could be driven by lack of familiarity with the experience.





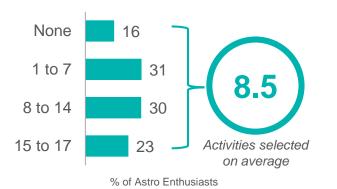
n=751

Dark Sky Tourism Events and Activities

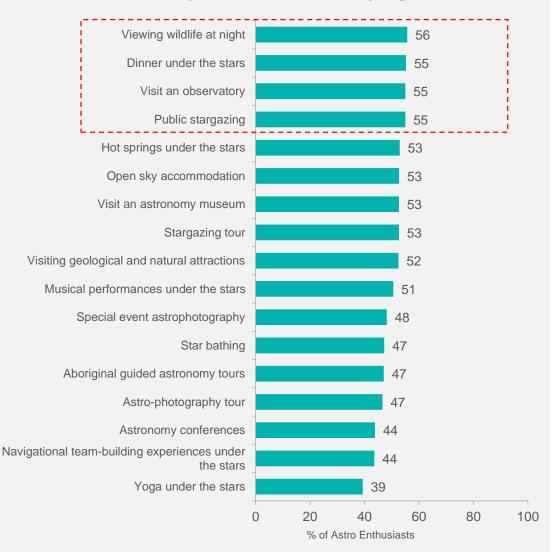
The target market is interested in a **broad range** of Dark Sky Tourism activities

Viewing wildlife at night, dinner under the stars, visiting an observatory and public stargazing have the highest interest levels, with significant crossover between activities that align with astronomy interests (e.g. visiting an observatory or museum) and tourism (e.g. dinner, open sky accommodation).

Number of Activities selected as 'High Interest'

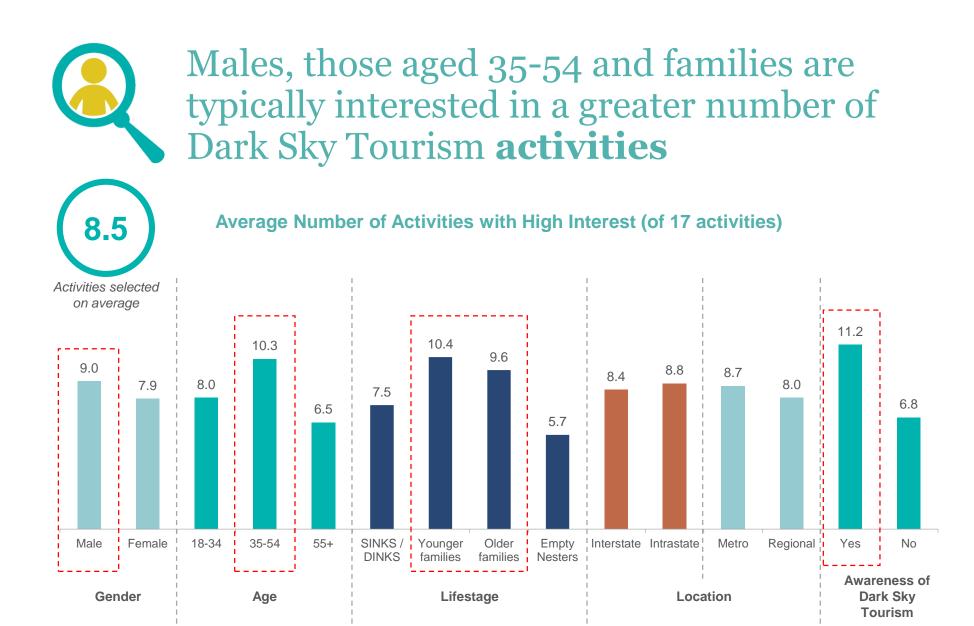


Interest in Dark Sky Tourism Activities | High Interest 6-7





n=751 Q13: Below is a series of dark sky tourism experiences you could do. How interested are you in each of these? ↓↑ Significant difference between segments at 95% confidence





There is an opportunity for **specific tourism packages** to align with key activities, tailoring specific astronomy, nature and tourism experiences

Key Astro Activities

27%

A quarter (27%) of the target market demonstrates high interest in <u>all key</u> astronomy based activities; specifically:

- Visiting an astronomy museum or observatory
- Stargazing tour
- Astrophotography tour or special event astrophotography

They typically have a high crossover with key tourism based activities.

Interest in Key Activities | High Interest

5%

% of Astro Enthusiasts

23%

Those who don't have a high interest in any of these key activities (52%) have lower engagement overall.

Activities such as viewing wildlife at night, public stargazing and visiting geological and natural attractions are popular across all groups, particularly those interested in key tourism activities.

Key Tourism Activities

43%

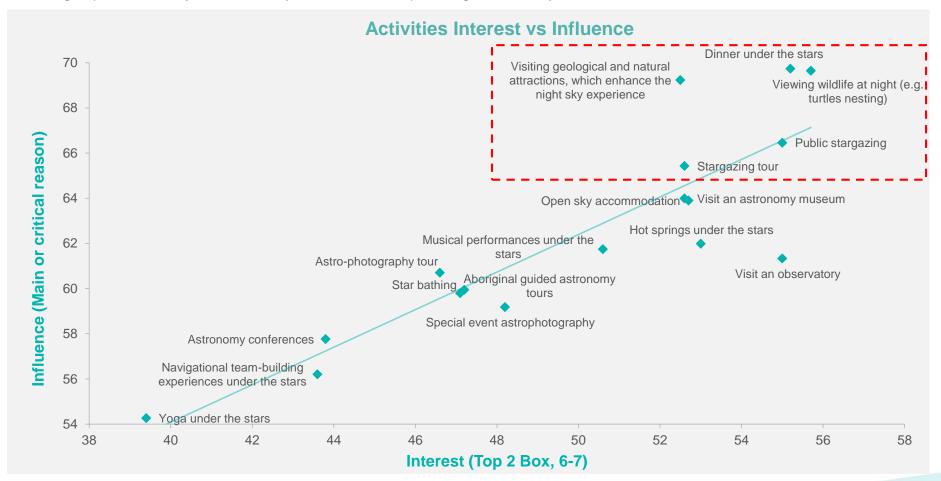
Four in ten have a **high interest in accommodation and dinner under the stars**, and many of these also have an interest in astronomy based activities.

Some are interested in complementing these base activities with other tourism activities, including star bathing, musical performances, hot springs and public stargazing.



Dining under the stars, viewing wildlife and visiting natural attractions are **compelling** activities

Although there is an interest in activities such as visiting an observatory, partaking in astrophotography and navigational teambuilding experience, they are less likely to influence the planning of a holiday.



n=751

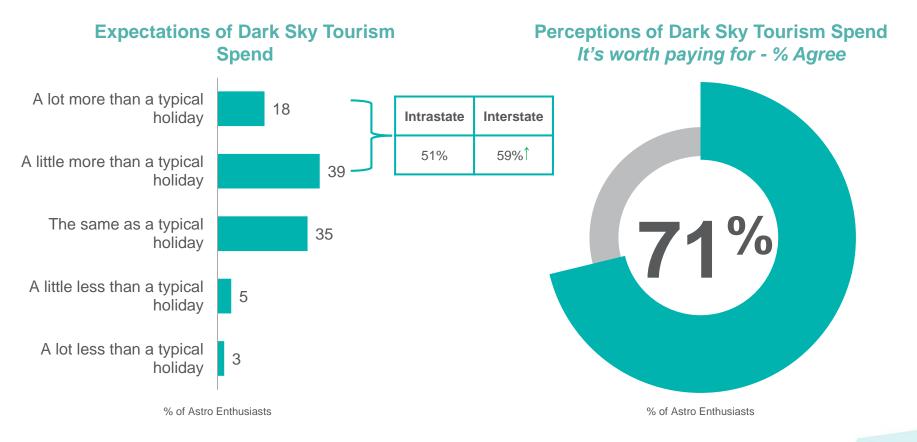
21

Q13: Below is a series of dark sky tourism experiences you could do. How interested are you in each of these?

Q14: And what impact would each of these activities have on you planning where to go for a holiday?

Spend does not appear to be a significant barrier, with the majority of the target market anticipating spending the same or more that a typical holiday

Interstate audiences are more likely to expect to spend more than intrastate audiences on Dark Sky Tourism, as are those living in metro areas. Males, families and those under the age of 55 also have higher spend expectations.





n=751

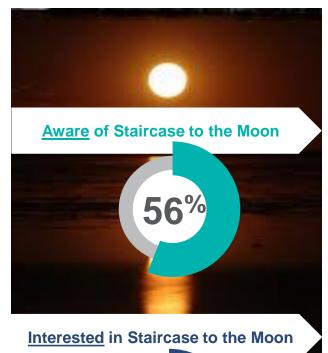
22

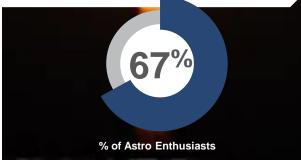
Q12: Based on your understanding, to what extent do you agree or disagree that dark sky tourism is?

Q15: Thinking about a typical holiday in Australia, if you were traveling for dark sky tourism activities, experiences or events would you plan on spending...?

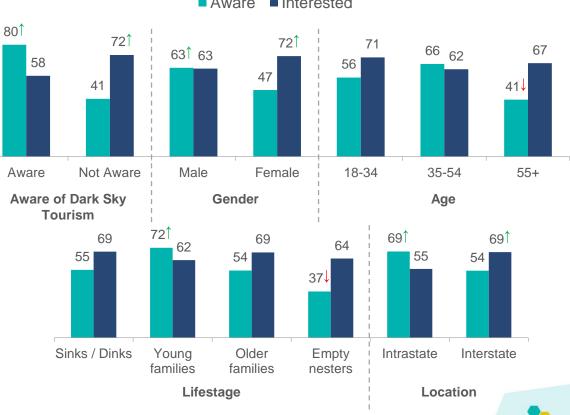
Two thirds of Astro Enthusiasts are interested in the Staircase to the Moon once aware







Though awareness is lower among interstate audiences, interest is stronger once informed. Geographical and natural phenomena such as the Staircase to Moon also present an opportunity to engage new audiences (i.e. those unfamiliar with Dark Sky Tourism, as well as females).



■ Aware ■ Interested

Awareness and Interest by Audience

n=751

23

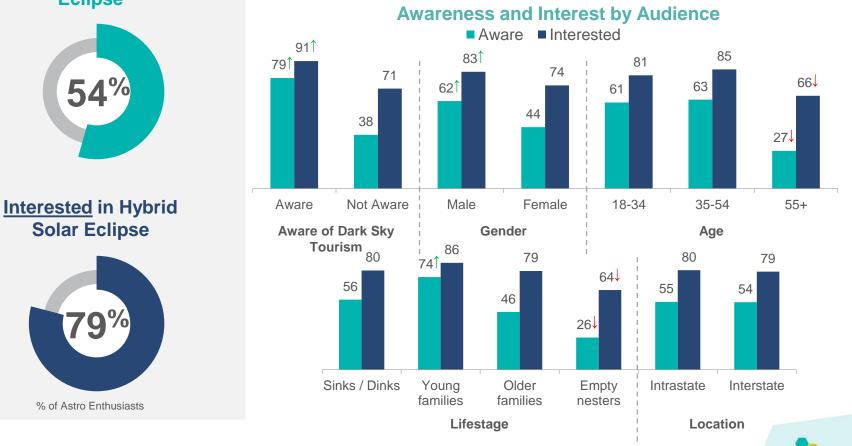
Q18: Have you heard about The Staircase to the Moon, a natural phenomenon visible from Broome, WA as well as other areas of the Kimberly and Pilbara?

↓ Significant difference between segments at 95% confidence

Even more compelling is the Hybrid Solar Eclipse, especially amongst 'younger' males



Awareness and interest aligns with the core marketing opportunity for Dark Sky Tourism, specifically young males and young families. Intrastate and interstate audiences show similar awareness and interest levels, though prior intent to visit WA falls behind VIC, NSW and QLD among interstate audiences.



n=751 Q19: Have you heard about the Hybrid Solar Eclipse, visible from Exmouth, WA in 2023?

% of Astro Enthusiasts

Aware of Hybrid Solar

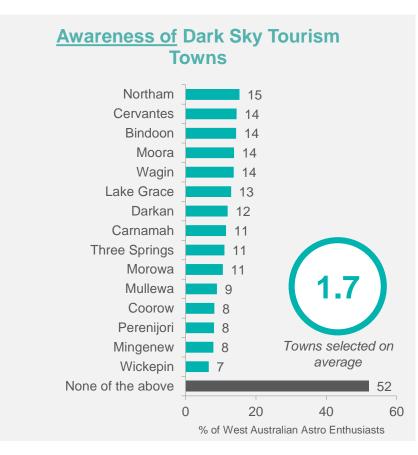
Eclipse

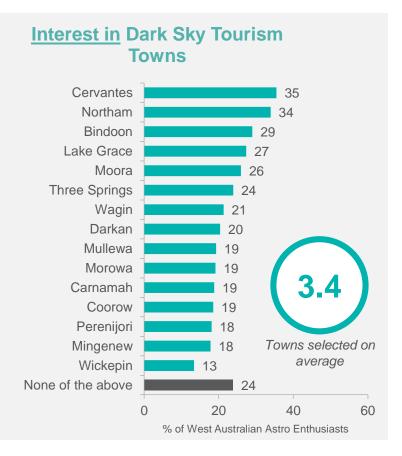
54%

Solar Eclipse

↓ Significant difference between segments at 95% confidence

Awareness of **towns** is limited, though higher interest levels represent tourism opportunities for Cervantes, Northam, Bindoon, Lake Grace and Moora







Base: Western Australians n=251

25

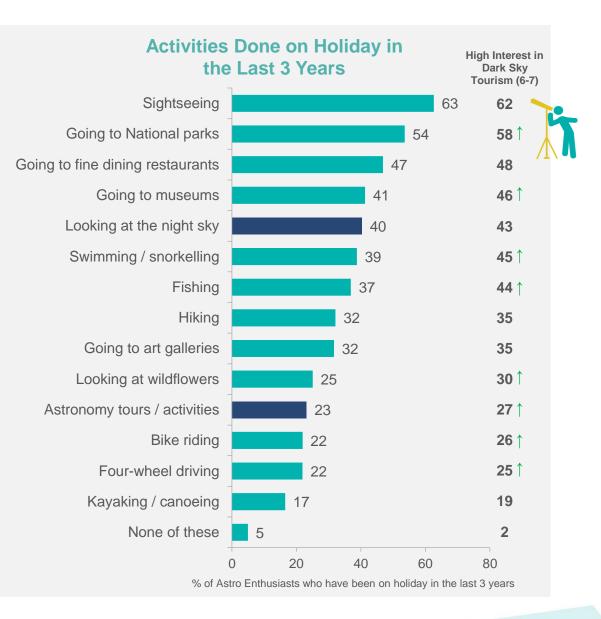
Q20. A number of towns in WA are helping to protect dark night skies so people experience starry night skies at their very best. Were you aware of dark sky tourism being offered at any of the following towns?

Q21. Which of the following WA towns would you be interested in visiting for dark sky tourism activities, experiences or events?

Exploring Travel Behaviours and Preferences among Astro Enthusiasts

Astro Enthusiasts with high interest in Dark Sky Tourism are typically **more active** on holidays



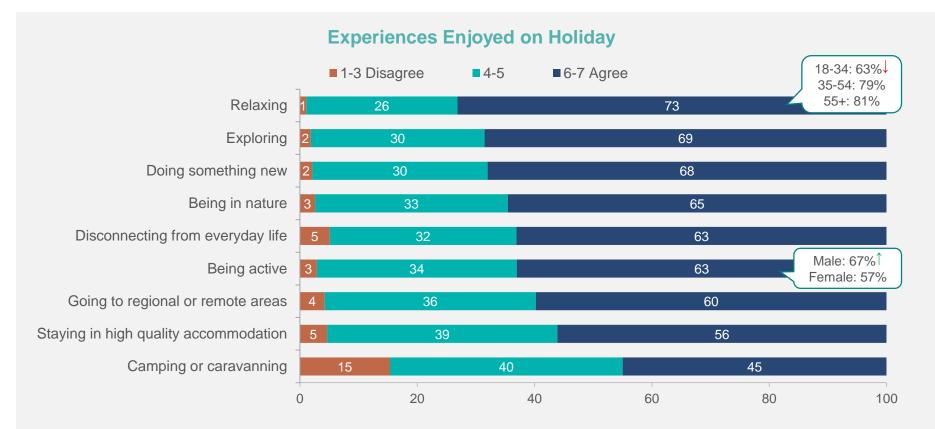


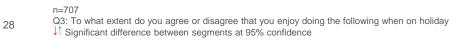


Astro Enthusiasts look for opportunities to **relax and explore in nature** when on holiday



Those with a high level of interest in Dark Sky Tourism are more likely to enjoy all holiday experiences, with the ability to relax (85% agree), explore (83% agree) and do something new (82% agree) considerably more appealing among this audience.

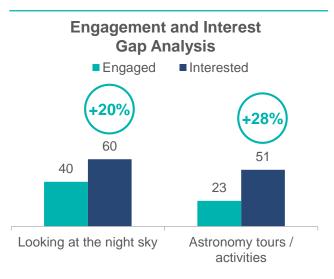


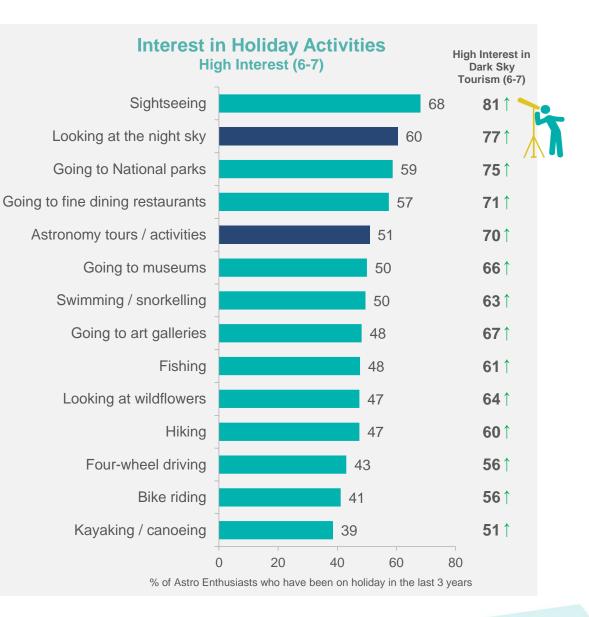




Interest in key Dark Sky Tourism activities extends well **beyond recent experience**

Six in ten Astro Enthusiasts are interested in looking at the night sky on holiday, though only four in ten have managed to do so in the last three years. Similar trends are observed for astronomy tours and activities.

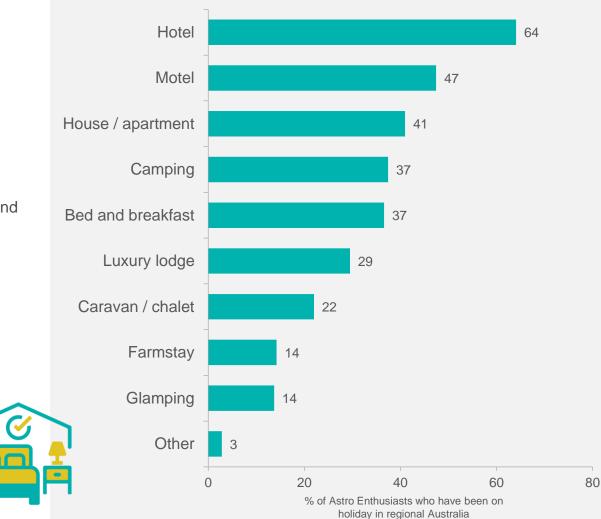






n=680 Q5: When on holiday within Australia, to what extent do you agree or disagree that you are interested in the following ↓↑ Significant difference compared to those with lower interest in Dark Sky Tourism (1-5) at 95% confidence Hotels, motels and homes are most commonly used by regional travellers

This is broadly consistent across demographics, and regardless of interest and engagement with Dark Sky Tourism.



Regional Holiday Accommodation Used



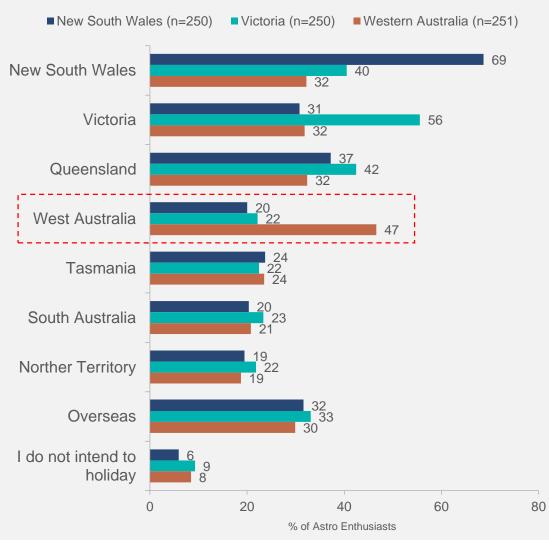
n=417 Q7. Which of the following types of accommodation have you stayed in whilst on holiday in regional Australia in the last 3 years? ↓↑ Significant difference between segments at 95% confidence

West Australia's Dark Sky Tourism Opportunity

At a broader level, WA faces **strong competition** from the East Coast, even among its own residents



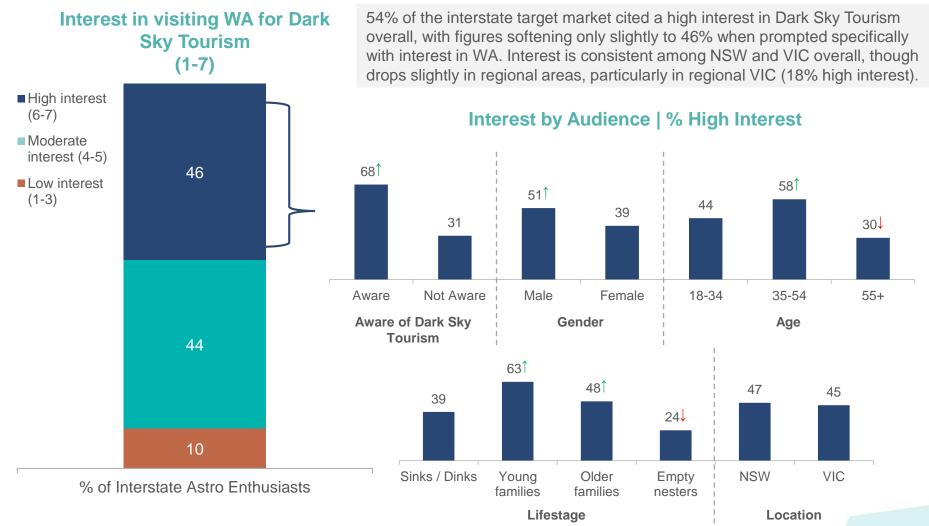
Intended Holiday Destinations – Next 3 Years





Interest in **visiting WA** for Dark Sky Tourism remains strong, compared to overall interest





n=500

33

Q16: How interested are you in visiting Western Australia for dark sky tourism activities, experiences or events?

metrix

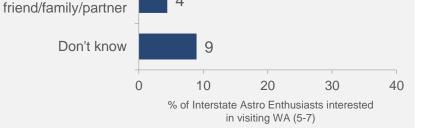
A general interest in visiting WA **drives interest** in the state's Dark Sky Tourism offering

Love to visit the West's vast area to explore as it would be great for star watching/gazing.
 – Regional VIC

WOW, Western Australia would have the best night sky because of minimal light pollution. I've never been to WA but would love to. I think it would be so interesting!
PREGIONAL NSW



Reasons for Interest in Visiting WA





n=334 Q17: What are the reasons you gave that score? How would you describe your level of interest in visiting Western Australia to a friend? ↓↑ Significant difference between segments at 95% confidence

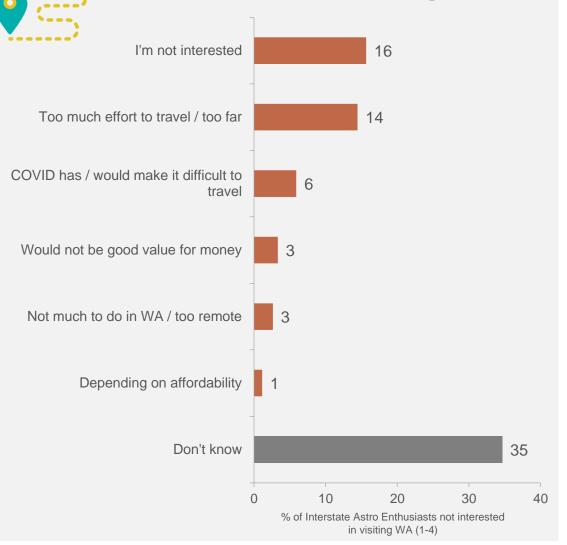
Lack of interest in WA in general along with **perceived access challenges** are key barriers

For a third of NSW regional Astro Enthusiasts uninterested in visiting, WA represents too much of an effort, mostly due to its distance away and the state size to get around.

It is a large state, and everything is a far distance to travel.
Metro NSW

Not really sure what else I would do there.
 It's a long way to go to see what I can see just about anywhere in Australia.
 Regional NSW

Reasons for Lack of Interest in Visiting WA

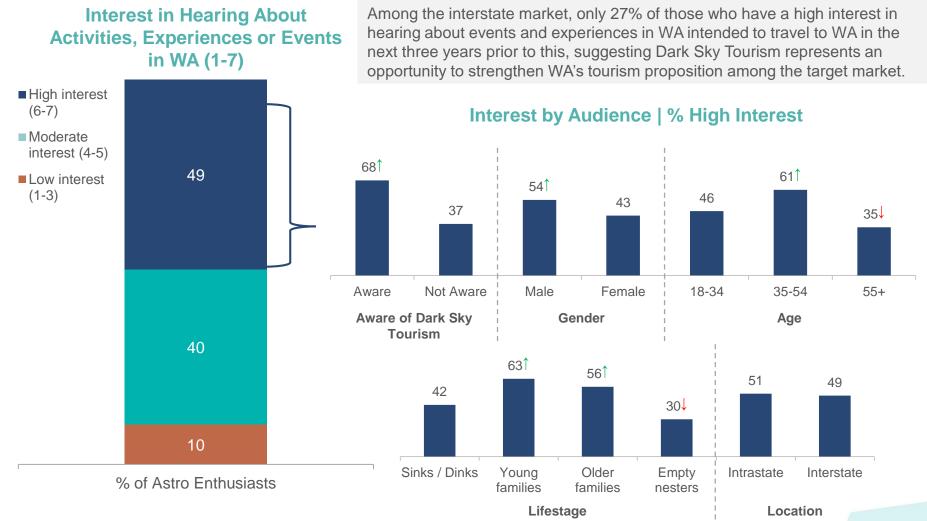




n=166 Q17: What are the reasons you gave that score? How would you describe your level of interest in visiting Western Australia to a friend? \$\frac{1}{2}\$ Significant difference between segments at 95% confidence

Intrastate and interstate Astro Enthusiasts are equally interested WA's Dark Sky Tourism





n=751

36

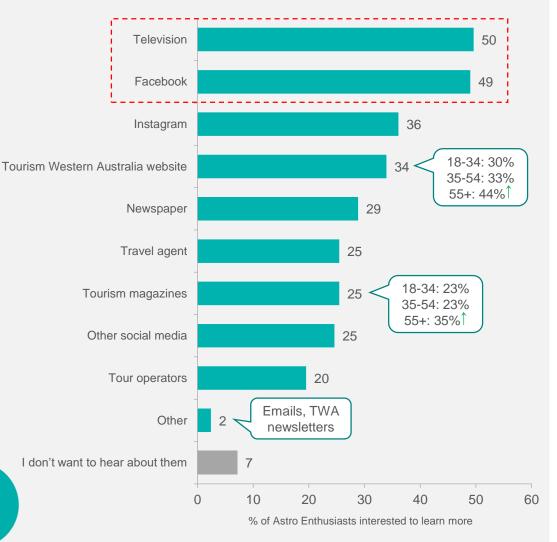
Q22: How interested are you in hearing about other dark sky tourism activities, experiences or events available in Western Australia?

Passive channels such as TV and social media are preferred, reflecting category knowledge gaps

TV and Facebook are the preferred channels, though they appeal to distinct audiences:

- Television is the preferred channel for those aged 35 or older (18-34: 39%↓, 35-54: 57%, 55+: 57%).
- Facebook is the preferred channel for younger audiences (18-34: 51%, 35-54: 55%, 55+: 36% ↓), followed by Instagram (18-34: 41%, 35-54: 46%, 55+: 9% ↓).
- Those 55 or older are also more likely to want to hear from TWA and official tourism sources.

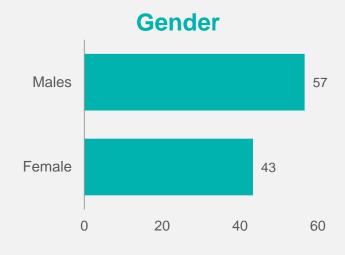
Preferred Communication Channels

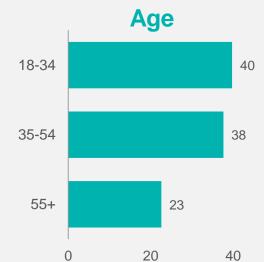




Appendix

Weighted sample breakdown







% of Astro Enthusiasts



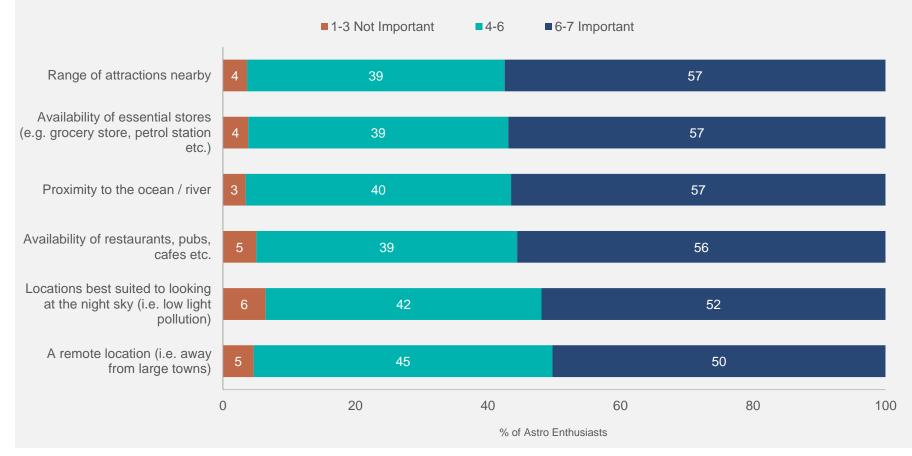
Destinations visited in the last 3 years





There are **no standout factors** when choosing a holiday, all are considered important

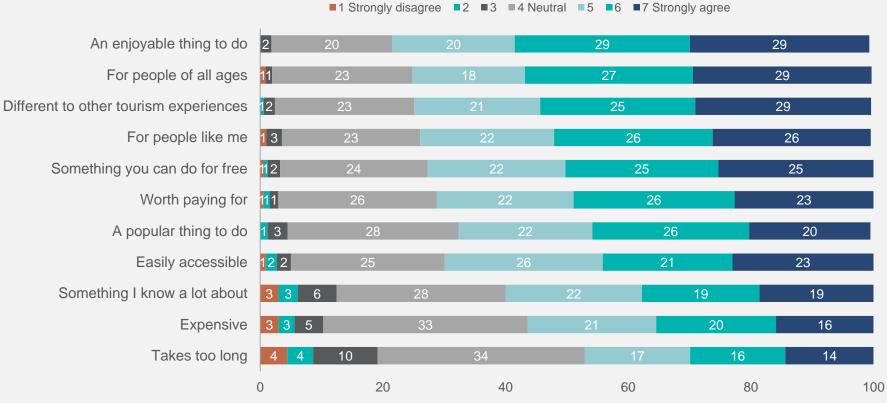
Factors Influencing Choosing a Holiday in Regional Australia





Perceptions of Dark Sky Tourism – All Statements

Perceptions of Dark Sky Tourism



% of Astro Enthusiasts



n=751 Q12: Based on your understanding, to what extent do you agree or disagree that dark sky tourism is? ↓↑ Significant difference between segments at 95% confidence



