青藏高原智慧出行调查问卷

Smart Transportation on Qinghai-Tibet Plateau

　　您好！我们是北京师范大学地理科学学部青藏高原科考队，本次问卷调查是我国青藏科考的重要组成部分，旨在通过调查青藏高原地区电子设备与智慧出行情况，为青藏高原地区智慧交通发展提供决策支撑。问卷不涉及您的姓名、电话、住址等个人信息，填写的问卷内容也将严格保密，且仅做科学研究使用，请您放心填写。感谢您的支持，祝您生活愉快！

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青藏高原科考队

2022 年 7 月

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Hello! We are the Qinghai-Tibet Plateau Scientific Expedition Team from the Faculty of Geographical Science, Beijing Normal University. This questionnaire survey is an important part of China's Qinghai-Tibet scientific expedition. It aims to investigate the use of electronic devices and smart travel in the Qinghai-Tibet Plateau region, providing decision-making support for the development of intelligent transportation in the area. The survey does not involve personal information such as your name, phone number, or address. The contents of the questionnaire will be strictly confidential and used solely for scientific research purposes. Please feel assured in filling out the form. Thank you for your support, and we wish you a pleasant life!

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Qinghai-Tibet Plateau Scientific Expedition Team

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第一部分：社会经济情况调查

1. 您的性别：□ 男　　　　　□ 女

2. 您的年龄：□ 18 岁以下 □ 18 岁-30 岁 □ 31 岁-45 岁 □ 46 岁-60 岁 □ 60 岁以上

3. 您来自：_____（请填写省/自治区/直辖市）

4. 您的个人月收入（包括生活费、补贴等）：□ 2000 元以下　□ 2001 元-5000 元 □ 5001 元-10000 元　□ 10001 元-20000 元 □ 20000 元以上

5. 您的学历（包括在读学历）：□ 初中及以下 □ 高中（中专）　□ 本科（大专）　□ 硕士及以上

6. 您的职业：□ 公务员 □ 农民（牧民）　□ 工程技术专家 □ 个体户 □ 教师　□ 专职司机 □ 科研人员　□ 自由职业 □ 学生 □ 企业职员 □ 其他_____

7. 您的家庭成员数量：_____ 人

8. 您是否有驾照：□ 有 □ 没有

9. 您家庭拥有私家车的数量

Part I. Socioeconomic attributes

1.1 Gender: Male; Female.

1.2 Age: < 18; 18-30; 31-45; 46-60; > 60 (years old).

1.3 Residence: Provinces/Autonomous Regions/Municipalities.

1.4 Personal monthly income (including parental allowance, subsidies, etc.): <= 2000; 2001-5000; 5001-10000; 10001-20000; > 20000 (RMB).

1.5 Education level (including current education): <= 9th Grade; 10-12th Grade (Vocational High School); Undergraduate (Vocational College); Postgraduate and above.

1.6 Profession: Civil Servant; Farmers (Herdsmen); Engineering Specialist; Self-Employed; Teacher; Full-time Driver; Researcher; Freelancer; Student; Company Employee; Other.

1.7 Household size: 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; > 10.

1.8 Ownership of driving license: Yes; No.

1.9 Number of private cars owned: 0; 1; 2; 3; > 3.

第二部分：出行行为调查

1. 您本次出行的主要目的是：□ 娱乐放松 □ 工作通勤 □ 科研需求
   □ 日常生活出行（如邮寄、采购）□ 其他 _____

2. 您本次出行选择的交通工具包括：□ 自驾汽车 □ 汽车（非自驾）
   □ 公共交通 □ 单车骑行 □ 步行

3. 您 1 年内来青藏高原旅行的频率：□ 1 次 □ 2-5 次
   □ 6-10 次 □ 10 次以上 □ 常住

4. 您本次青藏旅游计划出行的时间：□ 0-7 天 □ 8-15 天 □ 16-30 天 □ 30 天以上 □ 常住

5. 您本次旅行的景点主要是(可多选)：□ 城镇景观 □ 乡村（或牧区）景观 □ 自然景观

6. 您本次旅途中，每天出行的平均时长约为：□ 1 小时以内 □ 1-4 小时
   □ 4.1-6 小时 □ 6.1-8 小时 □ 8 小时以上

7. 您本次旅途中，每天出行的平均距离约为：□ 10 公里以内 □ 11-50 公里
   □ 51-100 公里 □ 101-200 公里 □ 201 公里以上

8. 您对本次旅途出行的期待值：□ 十分期待 □ 期待 □ 一般 □ 不期待 □ 很不期待

Part II. Travel Behavior

2.1 *(Multiple choice)* Travel purposes: Leisure & Relaxation; Work Commute; Research Needs; Daily Activities (e.g., mailing, shopping); Other.

2.2 *(Multiple choice)* Travel mode(s): Car (Driving by Yourself); Car (Driving by Others); Public Transportation; Bicycle; Walking.

2.3 Frequency of traveling to Qinghai-Tibet Plateau in the past year: 1; 2-5; 6-10; > 10; Permanent Residence.

2.4 Planned traveling time for this trip to Qinghai-Tibet Plateau: 0-7 days; 8-15 days; 16-30 days; > 30 days; Permanent Residence.

2.5 *(Multiple choice)* Types of tourist attractions for this travel: Urban and County Landscapes; Agricultural (or Pastoral) Landscapes; Natural Landscapes.

2.6 Average daily traveling time in this trip: < 1 hour; 1-4 hours; 4.1-6 hours; 6.1-8 hours; > 8 hours.

2.7 Average daily traveling distance in this trip: <= 10 km; 11-50 km; 51-100 km; 101-200 km; >= 201 km.

2.8 Expectation level of the travel: Very Expected; Expected; General; Not Expected; Not Very Expected.

第三部分：电子设备使用情况调查

1. 您目前正在使用的手机数量有_____部
2. 在本次出行中，您的手机是否可以连接网络（包括 WiFi）：□是   □否
3. 在本次出行中，您的手机网络信号是否稳定：□全程基本稳定 □一般 □全程不太稳定
4. 在本次出行中，您平均每天使用手机的时长约为：□1 小时以内 □1-3 小时
   □3.1-5 小时 □超过 5 小时
5. 在本次出行中，您平均每天使用手机的频率：□较高   □中等   □较低
6. 本次出行，如果您开车自驾，您每天使用车载电子设备（如车载导航、收音机、CD 机）的平均时长：□1 小时以内 □1-4 小时   □4.1-6 小时 □6.1-8 小时 □8 小时以上
   □非自驾出行
7. 您平时使用手机或者车载电子设备的流畅程度：
   □ 比较流畅，能顺利完成出行的必要需求（如规划线路、购买门票等）
   □ 一般流畅，一些功能还得摸索一下
   □ 不太流畅，多数功能都需要学习询问
   □ 不流畅，不熟悉相关功能

Part III. Usage of Electronic Devices

3.1 Number of phones you currently used: 0; 1; 2; >= 3.

3.2 If your phones are connected to network (including WIFI): Yes; No.

3.3 Stability level of network signals during the trip: Always Stable All Along; Moderately Stable; Not Stable All Along.

3.4 Average daily time of using phones during the trip: < 1 hour; 1-3 hours; 3.1-5 hours; > 5 hours.

3.5 Frequency of using phones daily during the trip: High; Moderate; Low.

3.6 During this trip, if you were driving yourself, what was your average daily usage time of in-car electronic devices (e.g., GPS, radio, CDs): < 1 hour; 1-4 hours; 4.1-6 hours; 6.1-8 hours; > 8 hours; Non-Self-Driving Trip.

3.7 How would you rate your proficiency in using mobile phones or in-car electronic devices: Quite proficient, able to smoothly handle essential travel needs (e.g., route planning, ticket purchasing); Moderately proficient, some features require exploration; Not very proficient, most functions require learning or asking for help; Not proficient, unfamiliar with related features.

第四部分：电子设备支持出行的价值调查

电子设备（手机、电脑、车载导航等）对旅途出行有较大价值。请根据下列陈述，按实际情况的符合程度勾选：

陈述	非常符合	符合	一般	不符合	非常不符合
我比较依赖电子设备来制定出行计划					
通过使用电子设备，我能获取出行服务信息（如寻找加油站、服务区等）					
通过使用电子设备，我能了解旅游资讯（如查找景点位置、票价等）					
通过使用电子设备，我能有效控制出行的花销（如查询景点或住宿价格）					
通过使用电子设备，我能制定合理的出行计划日程（如计划出发时间）					
电子设备提升了我出行的灵活性（如改变出行线路、改变出行时间计划）					
电子设备有助于我与出行同伴的沟通和协调（如约定出发时间）					
电子设备提升了我参观访问新地点的数量					
电子设备增加了我旅游出行的距离					
电子设备增加了我旅游出行的次数					

Part IV. Value of Electronic Devices in Supporting Travel

Electronic devices (e.g., mobile phones, computers, in-car navigation systems) are highly valuable for travel. Please check the level of agreement with the following statements based on your actual situation:

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I rely heavily on electronic devices to plan my trips.					
Using electronic devices, I can access travel service information (e.g., locating gas stations, service areas, etc.).					
Using electronic devices, I can learn about tourist information (e.g., finding attraction locations, ticket prices, etc.).					
Using electronic devices, I can effectively manage travel expenses (e.g., checking attraction or accommodation prices).					
Using electronic devices, I can create a reasonable travel schedule (e.g., planning departure times).					
Electronic devices enhance the flexibility of my trips (e.g., changing travel routes, adjusting travel plans).					
Electronic devices help me communicate and coordinate with travel companions (e.g., agreeing on departure times).					
Electronic devices increase the number of new places I visit.					
Electronic devices extend the distance I travel.					
Electronic devices increase the frequency of my travel.					

Note: The indexes of these statements above are labeled from 4.1 to 4.10.

第五部分：电子设备与出行安全

电子设备（手机、电脑、车载导航等）对保障出行安全同样有较大价值。请根据下列陈述，按实际情况的符合程度勾选：

陈述	非常符合	符合	一般	不符合	非常不符合
通过使用电子设备，我能了解道路实况信息（如天气、拥堵等）					

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
通过使用电子设备，我能选择更合适的交通出行方式（如租车、自驾）					
电子设备有助于我与其他人（如队友）共享道路信息（如分享实时路况）					
通过使用电子设备，我能及时发现和避免可能存在的道路隐患（如泥石流、危桥等）					
通过使用电子设备，我能及时选择更为安全的路线（如，避免道路塌陷路段）					
通过使用电子设备，我能有效避免各种行车危害带来的身体或心理伤害（如，追尾造成的身体擦伤）					
总体而言，电子设备对我本次出行有帮助					
我对本次旅途出行整体比较满意					
本次旅途出行缓解了我的生活工作压力					
本次旅途出行提高了我的身心健康水平					

Part V. Electronic Devices and Travel Safety

Electronic devices (e.g., mobile phones, computers, in-car navigation systems) also play a significant role in ensuring travel safety. Please check the level of agreement with the following statements based on your actual situation:

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Using electronic devices, I can access real-time road information (e.g., weather, traffic congestion).					
Using electronic devices, I can choose more suitable modes of transportation (e.g., car rental, self-driving).					
Electronic devices help me share road information (e.g., sharing real-time traffic updates) with others (e.g., teammates).					
Using electronic devices, I can identify and avoid potential road hazards (e.g., landslides, dangerous bridges).					

Using electronic devices, I can select safer routes in a timely manner (e.g., avoiding collapsed road sections).					
Using electronic devices, I can effectively avoid physical or psychological harm caused by various driving dangers (e.g., minor injuries from rear-end collisions).					
Overall, electronic devices were helpful during this trip.					
I am generally satisfied with this trip.					
This trip helped alleviate the pressure from my work and daily life.					
This trip improved my physical and mental health.					

Note: The indexes of these statements above are labeled from 5.1 to 5.10.

第六部分：出行环境调查

请您对本次旅行中的沿线景观进行评价。

陈述	非常符合	符合	一般	不符合	非常不符合
我觉得沿线的风景很美					
我觉得沿线景观数量较多					
我觉得我去的景点知名度较高					
我觉得沿线的景观很独特					
我比较容易到达我想去的景点					
我觉得景区的服务质量较好					

请您对沿线道路状况和管理水平对出行的影响进行评价。

陈述	很大	较大	一般	较小	很小
沿途的道路状况（如山高坡陡、急弯、道路拥堵、滑坡等）对本次出行的影响					
沿途的道路质量（高等级和低等级道路）对本次出行的影响					
道路沿线各种服务设施的可获得性（如商店、停车场、加油站等）对本次出行的影响					
沿线道路交通管理水平和能力对本次出行的影响					
道路沿线救援设施及救援人员的应急响应，对本次出行的影响					

Part VI. Travel Environment

Please evaluate the scenery and tourist attractions along your travel route.

Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I think the scenery along the route is beautiful.					
I think there is a large variety of scenic views along the route.					
I think the attractions I visited are well-known.					
I think the scenery along the route is unique.					
It is relatively easy for me to reach the attractions I want to visit.					
I think the service quality at the attractions is good.					

Note: The indexes of these statements above are labeled from 6.1 to 6.6.

Please evaluate the impact of road conditions and management on your trip.

Statement	Very Large	Large	Neutral	Small	Very Small
The road conditions along the route (e.g., steep slopes, sharp turns, traffic congestion, landslides) affected this trip.					
The quality of the roads (e.g., high-grade vs. low-grade roads) affected this trip.					
The availability of roadside service facilities (e.g., shops, parking lots, gas stations) affected this trip.					
The level and capability of traffic management along the route affected this trip.					
The emergency response facilities and personnel along the route affected this trip.					

Note: The indexes of these statements above are labeled from 6.7 to 6.11.