

# I DEWA MADE FRENDIKA SEPTANAYA

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| <b>Name</b>   | <b>Dr. I Dewa Made Frenrika Septanaya, ST, MT, M.Sc.</b>  |   |                     |
| <b>Post<br/>(Expertise)</b>   | <b>Assistant Professor<br/>(Urban studies and Housing)</b>  |   |                     |
| <b>Academic career</b>  | <b>Initial academic appointment</b>   | <b>Institution</b>  | <b>Year</b>         |
|   | Doctoral degree   | Sorbonne Université<br>(Tropical World Studies – Planning, Environment)   | 2014 - 2019         |
|   | Master's degree   | Institut Teknologi Sepuluh Nopember and<br>Université de Bretagne Occidentale<br>(Urban Development Management) | 2011 - 2013         |
|   | Undergraduate degree  | Institut Teknologi Sepuluh Nopember<br>(Urban and Regional Planning)  | 2008 - 2012         |
| <b>Employment</b>   | <b>Position</b>   | <b>Employer</b>   | <b>Period</b>       |
|   | Lecturer, Researcher  | Department of Urban and Regional<br>Planning, Institut Teknologi Sepuluh<br>Nopember, Surabaya                  | 2020 - until<br>now |
| <b>Research and development projects over the last 5 years</b>  | <b>Publication</b>  |   |                     |
|   | <b>2023</b>   |   |                     |
|   | <ul style="list-style-type: none"> <li>- Salimah, M., <b>Septanaya, I.D.M.F.</b>, &amp; Navitas, P. "Perubahan Perilaku Wisatawan dan Aktivitas Wisata Pasca Terjadinya Pandemi COVID-19 di Kota Yogyakarta." Jurnal Penataan Ruang, vol.18, p.19-29.</li> <li>- <b>Septanaya, I.D.M.F.</b> &amp; Fortuna, S. "Gender Mainstreaming Efforts in Disaster Management Plans: Case Study West Nusa Tenggara Province, Indonesia." International Journal of Disaster Risk Reduction, vol.87, 103576.</li> <li>- Ariastita, P.G., <b>Septanaya, I.D.M.F.</b>, Koswara, A.Y., Tucunan, K.P., Raharjo, A.B., &amp; Stefanugroho, P.K. "Pengembangan Sistem E-Lapor untuk Meningkatkan Kualitas Pengelolaan Data Perumahan, Prasarana, Sarana, dan Utilitas (PSU) di Kabupaten Sidoarjo." Sewagati, vol.7, 3.</li> </ul> |   |                     |
|   | <b>2022</b>   |   |                     |
| <ul style="list-style-type: none"> <li>- Drestanta, E.E., Muskita, E., <b>Septanaya, I.D.M.F.</b>, &amp; Stefanugroho, P.K. "The Role of the Church Institution in Responding the COVID-19 Pandemic (Case Study: Jemaat Rehoboth, GPM)". Jurnal Penataan Ruang, vol.17, 1, p.54-63.</li> <li>- Siagian, L.D.T., Stefanugroho, P.K., Nisa, Z., <b>Septanaya, I.D.M.F.</b>, Ariastita, P.G. "Assessment of Livability on Settlements Developed by Informal Land Subdividers in Gunung Anyar and Rungkut Districts, Surabaya." IOP Conference Series: Earth and Environmental Science, vol. 1015.</li> </ul> |   |   |                     |
| <b>2021</b>   |   |   |                     |
| <ul style="list-style-type: none"> <li>- <b>Septanaya, I.D.M.F.</b>, Ariastita, P.G., Firmansyah, F., &amp; Rizky, F. "Selecting the Best Route for Aerial Ladder Truck to Speed Up Response Time in High-Rise Buildings Located in Unprotected and High Fire Risk Areas". Jurnal Penataan Ruang, vol.16, 2, p.110-118.</li> <li>- <b>Septanaya, I.D.M.F.</b>, Navitas, P., Yusuf, M., Navastara, A.M., Faradisa, S., &amp; Stefanugroho, P.K. "Vulnerability Assessment of Public Rental Housing</li> </ul>  |   |   |                     |

(Rusunawa) Residents in Facing the Risk of COVID-19 Transmission (Case Study of Surabaya).” IOP Conference Series: Earth and Environmental Science, vol. 778.

- Faradisa, S.F., Ariastita, P.G., **Septanaya, I.D.M.F.** “Tipologi Rumah Susun Sederhana Sewa (Rusunawa) di Kota Surabaya.” Jurnal Teknik ITS, vol.9,2, p.C 93-98.

### 2020

- **Septanaya, I.D.M.F.**, Rahmawati, D., Navitas, P., & Stefanugroho, P.K. “What sets it apart from the rest? Investigating the national slum upgrading program, KOTAKU, in Surabaya.” IOP Conference Series: Earth and Environmental Science, vol. 562.
- Ariastita, P.G. Koswara, A.Y., Tucunan, K.P., **Septanaya, I.D.M.F.**, Hidayati, S.C., & Fortuna, S. “Rancang Bangun Sistem Cerdas E-Pengelolaan Aset Prasarana, Sarana dan Utilitas (PSU) Perumahan Berbasis Web di Kabupaten Sidoarjo.” ITS Tekno Sains: Surabaya.
- Ariastita, P.G., & **Septanaya, I.D.M.F.** *Konsep Pembangunan Kota*. Departemen Perencanaan Wilayah dan Kota ITS: Surabaya.

### 2019

- **Septanaya, I.D.M.F.** “L’évolution de l’offre de logements bon marché dans les régions métropolitaines de Java (Jakarta et Surabaya). <http://www.theses.fr/2019SORUL045>.
- **Septanaya, I.D.M.F.** & Rahmawati, D. “Slum upgrading initiative through KOTAKU program in Surabaya: A study of multi-actor cooperation and community capacity building.” CITIES 2019, Surabaya, October 16, 2019.

### Research

### 2024

- **Lead Researcher:** Evacuation Routes Planning of Mount Semeru Pyroclastic Flow. ITS Consortium Funding Programme, ITS Center Collaborative Research Scheme.

### 2023

- **Lead Researcher:** Decision Model for Subsidised Housing Residents’ Satisfaction, ITS Department Funding Programme Batch 2, Department Research Scheme Batch 2.
- **Lead Researcher:** Alternative Solution For Landslide Disaster Management in Kidul Gunung, Situbondo Regency through Spatial Arrangement of Housing and Settlement Analysis. ITS Consortium Funding Programme, ITS Center Collaborative Research Scheme.
- **Lead Researcher:** Policy Recommendation of Affordable Housing Provision with Public-Private Partnership Scheme Based on Market Property Analysis (Study Case: Pilot Project Rusunami SKBG in Surabaya). ITS Research Funding Programme, Development of National Institutions Research Scheme.
- **Research Team Member:** The Arrangement of Zoning Regulation and Airspace Security for Juanda International Airport. ITS Department Funding Programme, Department Research Scheme (Batch 2).

### 2022

- **Lead Researcher:** The Arrangement of Zoning Regulation and Airspace Security for Military Main Base Area, Study Case of Iswahjudi Air Base. ITS Department Funding Programme, Department Research Scheme (Batch 2).

### 2021

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|   | <ul style="list-style-type: none"> <li>- <b>Research Team Member</b>, Damage and Risk Assessment of Flood Disaster using Subgrid 3D Model Simulation through Computer Generated Architecture (CGA) Approach. ITS Consortium Funding Programme, ITS Center Collaborative Research Scheme.</li> <li>- <b>Research Team Member</b>, Housing Choice and Preference of Millennials in Surabaya City, ITS Department Funding Programme 2020, Department Funding Research Scheme.</li> </ul> <p><b>2020</b></p> <ul style="list-style-type: none"> <li>- <b>Research Team Member</b>, Concept and Design Guidelines of Rusunawa (Affordable Housing) to overcome the COVID-19 Pandemic, ITS Department Funding Programme 2020, Department Funding Research Scheme.</li> </ul> <p><b>Community Service</b></p> <p><b>2024</b></p> <ul style="list-style-type: none"> <li>- Design and Development of Spatial Information System for Sidoarjo Regency.</li> </ul> <p><b>2023</b></p> <ul style="list-style-type: none"> <li>- Formulation of village spatial planning format to Support Sustainable Development in Pangkah Wetan Village, Ujungpangkah District, Gresik Regency. Product-based community service scheme.</li> </ul> <p><b>2022</b></p> <ul style="list-style-type: none"> <li>- SanITS: 1000 Sanitation Project, ITS Priority Community Service Scheme.</li> <li>- Branding and Packaging Improvement of MSME in Kebon Tunggal using Participatory-Based Planning. Product-Based Community service scheme.</li> </ul> <p><b>2021</b></p> <ul style="list-style-type: none"> <li>- Synchronization of Sectoral Development Planning and Spatial Planning Research Study. Department Funding of community services thematic scheme.</li> <li>- Enhancing the Regional Asset Management Quality using Intelligent Web-Based management system for Housing Infrastructure in Sidoarjo Regency, Product-based community service scheme.</li> </ul> |
| <p><b>Industry collaborations over the last 5 years</b></p> | <p><b>2024</b></p> <ul style="list-style-type: none"> <li>- <b>Team Leader</b>: Preparation of the Detailed Spatial Plan for Tulangan Urban Area.</li> <li>- <b>Expert Team Member</b>: Policy and Strategy for Housing and Settlement Development in East Java for 2045.</li> </ul> <p><b>2023</b></p> <ul style="list-style-type: none"> <li>- <b>Expert team member</b>: Master Plan for Housing, Ports and Ammonia and Urea Factories in Fakfak Regency, West Papua Province, Indonesia.</li> <li>- <b>Team Leader</b>: Project for Academic Manuscript and Urban Regulation for Housing and Settlement Development Plans of Kediri, East Java Province, Indonesia.</li> <li>- <b>Team Leader</b>: Project for compiling the Tuban Regency Infrastructure Service Quality Index (IKLI).</li> </ul> <p><b>2022</b></p> <ul style="list-style-type: none"> <li>- <b>Team leader</b>: Plan for Prevention and Improvement of the Quality of Slum Housing and Settlements in Kediri, East Java Province, Indonesia.</li> <li>- <b>Team leader</b>: Housing and Settlement Development Plans in Kediri, East Java Province, Indonesia.</li> <li>- <b>Team leader</b>: Project for compiling the Tuban Regency Infrastructure Service Quality Index (IKLI).</li> </ul>   |

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|  | <ul style="list-style-type: none"> <li>- <b>Team leader:</b> Revision of the Madiun Spatial Plan.</li> </ul> <p><b>2021</b></p> <ul style="list-style-type: none"> <li>- <b>Expert team member:</b> The housing plan for civil servants in the Indonesian new capital city in East Kalimantan Province.</li> <li>- <b>Expert team member:</b> Designated Development Zones/ Growth Poles: Baucau and Batugade, Timor Leste.</li> <li>- <b>Expert team member:</b> The strategy to accelerate the provision of decent and affordable housing in urban areas of East Java Province.</li> <li>- <b>Expert team member:</b> The strategy for empowering the primary sector's economy in the new normal era in East Java Province, Indonesia.</li> <li>- <b>Expert team member:</b> Plan to provide supporting infrastructure for medium-sized urban development corridors in East Java Province, Indonesia.</li> </ul> <p><b>2020</b></p> <ul style="list-style-type: none"> <li>- <b>Expert team member:</b> Urban Transformation Project in Surabaya, Prosperity Fund Global – Future Cities Program.</li> <li>- <b>Expert team member:</b> Engaging Business Development Services (BDS) to build Business Capacity of Sanitation Entrepreneur in East Java Region Office (EJRO) of USAID IUWASH PLUS – Phase 2.</li> <li>- <b>Expert team member:</b> Study of the impact of large-scale social restrictions during the COVID-19 Pandemic on the port sector.</li> <li>- <b>Expert team member:</b> Infrastructure development plan to support the GresikLamongan-Tuban investment axis.</li> <li>- <b>Expert team member:</b> The evaluation of infrastructure development project in East Java Province.</li> </ul> <p><b>2019</b></p> <ul style="list-style-type: none"> <li>- <b>Expert team member:</b> Feasibility study of fire truck ladder in Sidoarjo Regency.</li> <li>- <b>Expert team member:</b> The synchronization of spatial and environmental protection policies in Rejoso watershed areas in Pasuruan Regency.</li> </ul> |
| <p><b>Patents and property rights</b></p>                  | <ol style="list-style-type: none"> <li>1. Satiawan, P. R. et al., 2023. <i>Formulasi Format Rencana Tata Ruang Desa Untuk Mendukung Keberlanjutan Pembangunan Desa Pangkah Wetan, Kecamatan Ujungpangkah, Kabupaten Gresik</i>. Indonesia, Patent No. 000565552.</li> <li>2. Rachmawati, M. et al., 2023. <i>Video Profil Fakultas Teknik Sipil, Perencanaan Dan Kebumihan (FT-SPK) Versi.2</i>. Indonesia, Patent No. 000442689.</li> </ol>   |
| <p><b>Important publications over the last 5 years</b></p> | <ol style="list-style-type: none"> <li>1. <b>Septanaya, I. D. M. F.</b>, &amp; Shellyn Fortuna (2023). Gender mainstreaming efforts in disaster management plans: Case study West Nusa Tenggara province, Indonesia. <i>International Journal of Disaster Risk Reduction</i>, 87. <a href="https://doi.org/10.1016/j.ijdrr.2023.103576">https://doi.org/10.1016/j.ijdrr.2023.103576</a></li> <li>2. Siagian, L. D. T., Stefanugroho, P. K., Nisa, Z., <b>Septanaya, I. D. M. F.</b>, &amp; Ariastita, P. G. (2022). Assessment of liveability on settlements developed by informal land subdividers in Gunung Anyar and Rungkut Districts, Surabaya. <i>IOP Conference Series: Earth and Environmental Science</i>. <a href="https://doi.org/10.1088/1755-1315/1015/1/012015">https://doi.org/10.1088/1755-1315/1015/1/012015</a></li> <li>3. <b>Septanaya, I. D. M. F.</b>, Ariastita, P. G., Firmansyah, F., &amp; Rizky, F. (2021). Selecting The Best Route for Aerial Ladder Truck to Speed Up Response Time in High-Rise Buildings Located in Unprotected and High Fire Risk Areas. <i>Jurnal Penataan Ruang</i>, 16(2).</li> <li>4. <b>Septanaya, I. D. M. F.</b>, Navitas, P., Yusuf, M., Navastara, A. M., Faradisa, S., &amp; Stefanugroho, P. K. (2021). Vulnerability assessment of public rental housing</li> </ol>   |

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|  | <p>(Rusunawa) residents in facing the risk of COVID-19 transmission (Case study of Surabaya). IOP Conference Series: Earth and Environmental Science. <a href="https://doi.org/10.1088/1755-1315/1015/1/012015">https://doi.org/10.1088/1755-1315/1015/1/012015</a></p> <p>5. <b>Septanaya, I. D. M. F.</b>, Rahmawati, D., Navitas, P., &amp; Stefanugroho, P. K. (2020). What sets it apart from the rest? Investigating the national slum upgrading program, KOTAKU, in Surabaya. IOP Conference Series: Earth and Environmental Science. <a href="https://doi.org/10.1088/1755-1315/562/1/012031">https://doi.org/10.1088/1755-1315/562/1/012031</a></p> |   |                   |
| <b>Activities in specialist bodies over the last 5 years</b> | <b>Organization</b>  | <b>Role</b>                               | <b>Period</b>     |
|  | <b>Indonesian Association of Planning Experts (IAP)</b>  | <b>Head of Capacity Building Division</b> | <b>2022 - now</b> |
|  | <b>The Indonesian - French Alumni Association (IAP)</b>  | <b>Head of Alumni Activities</b>          | <b>2023 - now</b> |