



Fourth Edition
**“NATURAL HAZARDS AND CULTURAL
HERITAGE”**
PRESERVATION STRATEGIES
19 - 26 July 2026



Cultural heritage at risk: Floods in urban territories . Campo Grande - MS, Brazil

Eliane Guaraldo



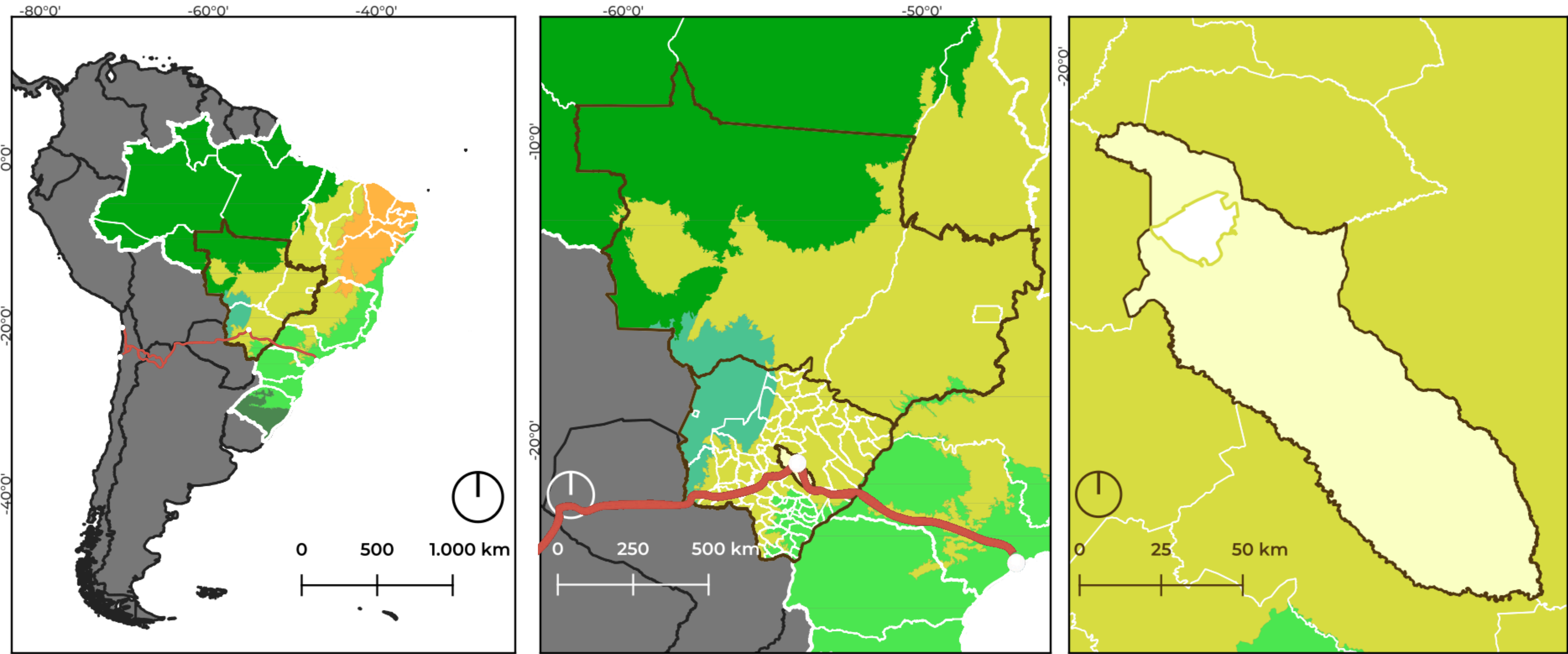
FUNDAÇÃO
UNIVERSIDADE
FEDERAL DE
MATO GROSSO DO SUL

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AU.doc. Laboratório de Pesquisa e Documentação em Arquitetura e Urbanismo

Orvieto - Todi
Thursday 23 July 2026

CAMPO GRANDE'S LOCATION



KEY

- Campo Grande's Urban Perimeter
- Campo Grande
- MS' Municipalities
- Bioceanic Corridor

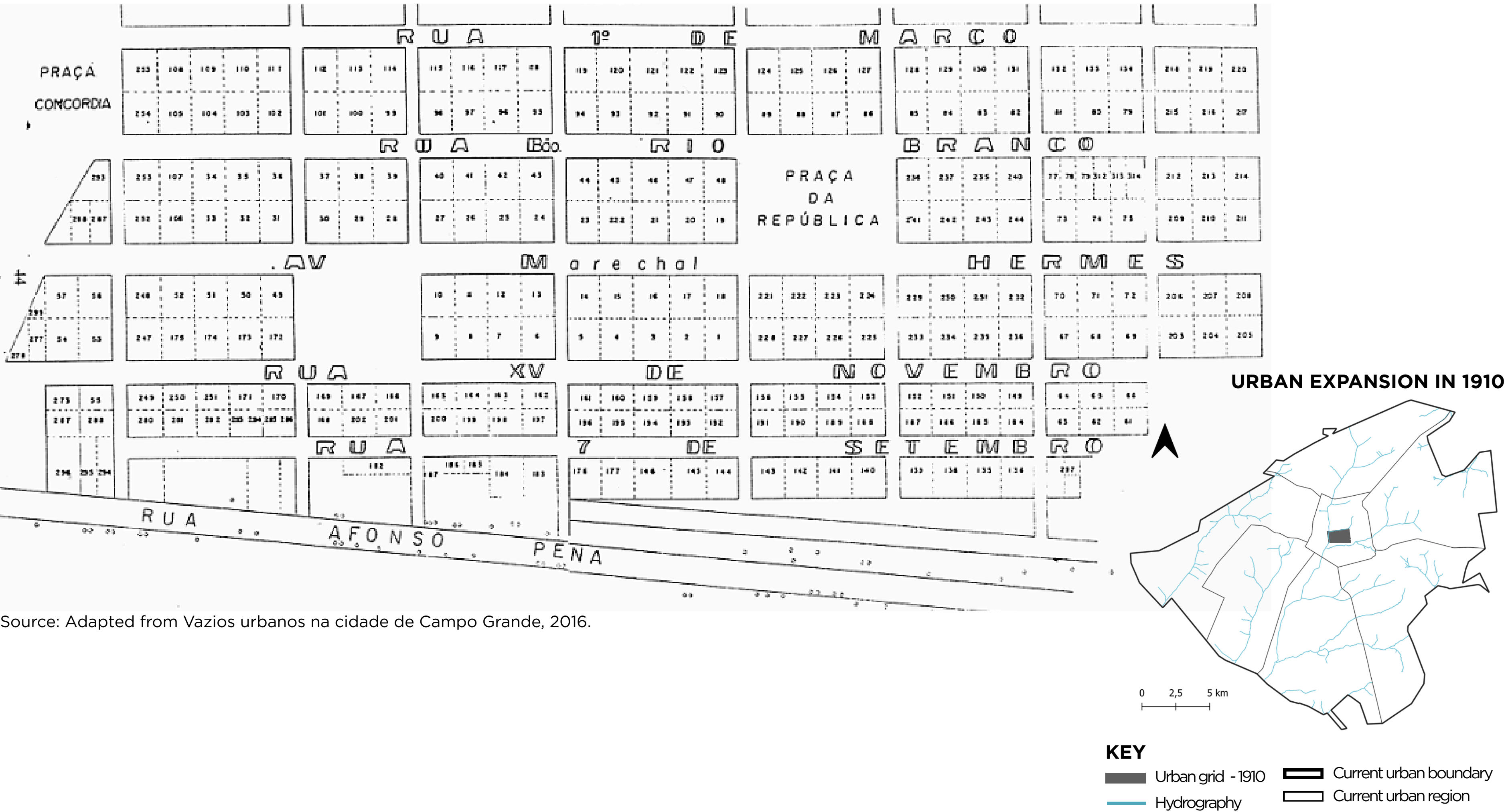
- Mato Grosso do Sul
- Midwest Region
- Brazilian States

- Brazilian Region: Brazil
- South America

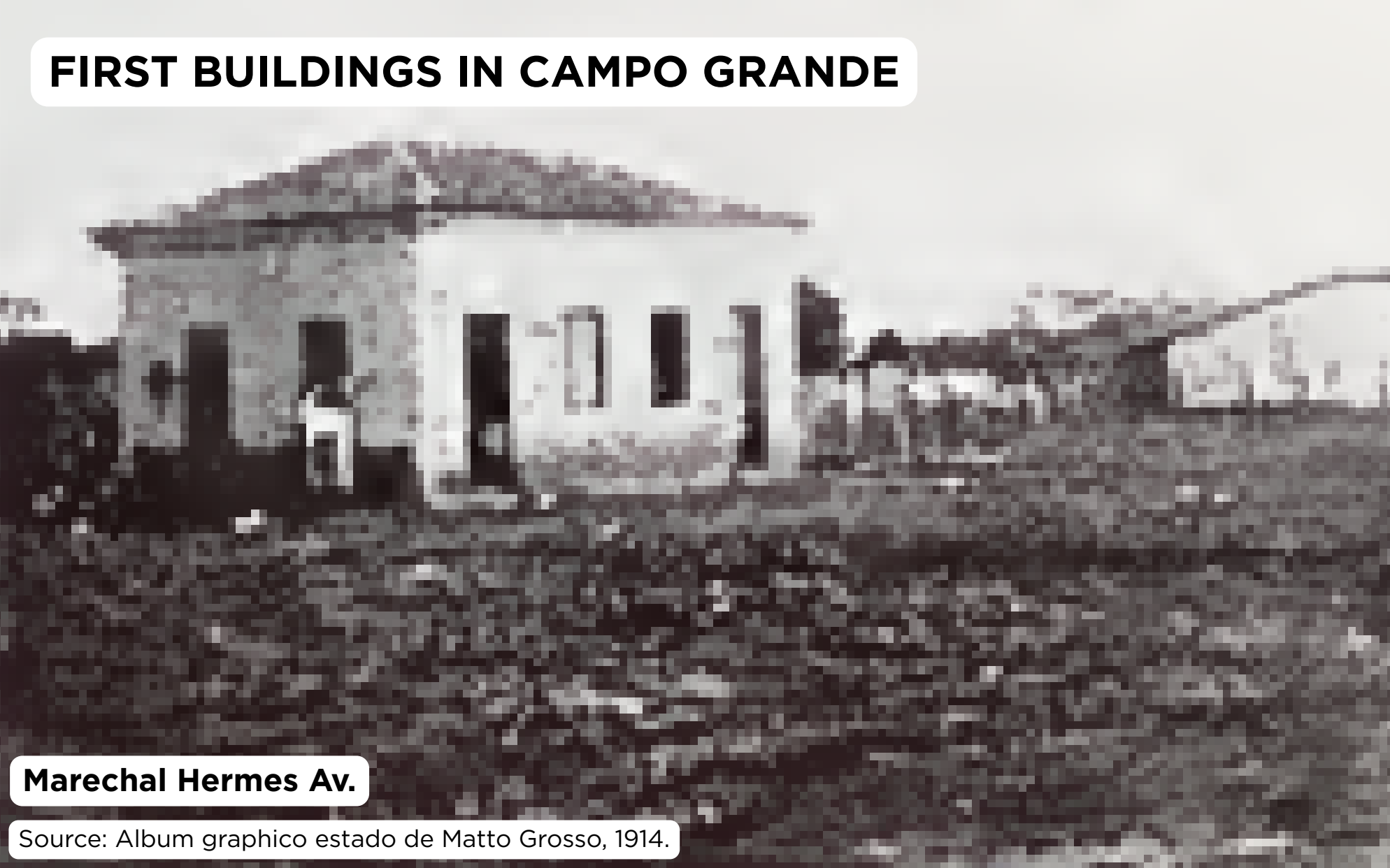
Brazilian Biomes

- Pampas
- Savanna
- Wetlands
- Caatinga
- Atlantic forest
- Amazon

MAP OF THE 1909 STREET ALIGNMENT PLAN



FIRST BUILDINGS IN CAMPO GRANDE



Marechal Hermes Av.

Source: Album graphico estado de Matto Grosso, 1914.



November 15th Street, Democrata Hotel

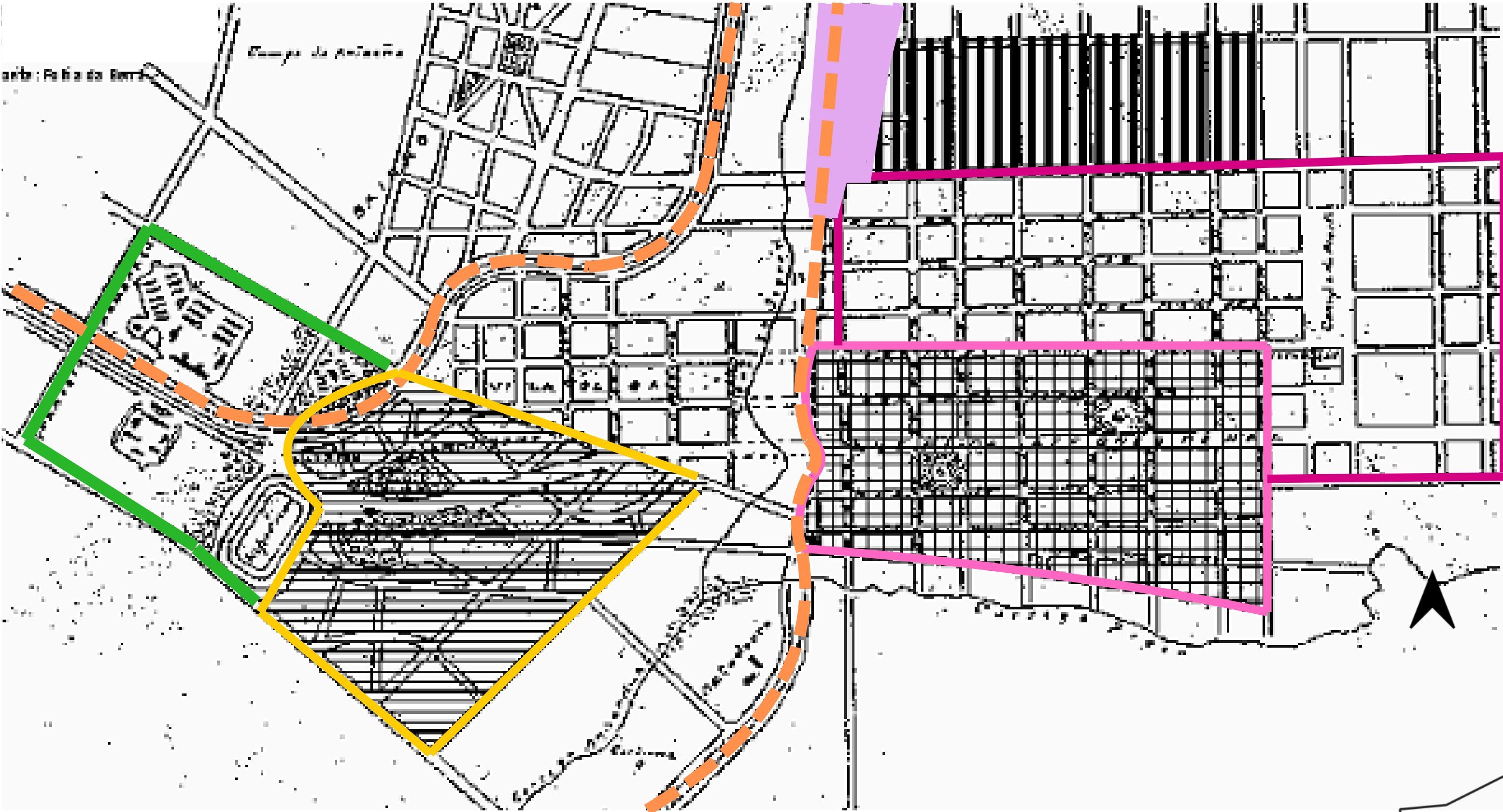
Source: Album graphico estado de Matto Grosso, 1914.



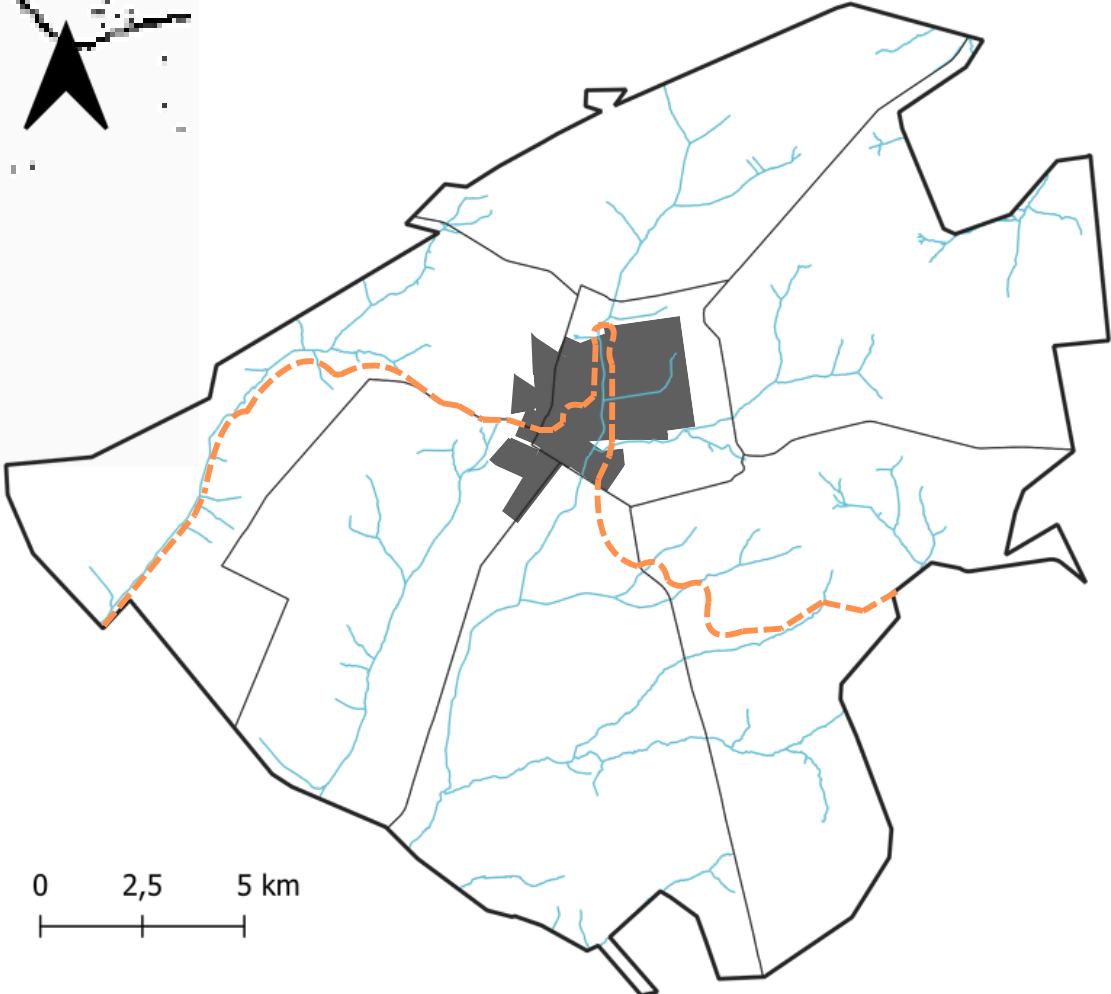
14th of July Street

Source: Album graphico estado de Matto Grosso, 1914.

MAP OF CAMPO GRANDE FROM 1942



URBAN EXPANSION IN 1940



Source: Adapted from Vazios urbanos na cidade de Campo Grande, 2016.

- KEY**
- 1909 Street Alignment Plan
 - Municipal Code - 1921
 - Amambaí neighborhood - 1921
 - Military camps - 1921
 - Northwestern Brazil Railway (NOB) - 1914
 - NOB Railway Terrace
 - Urban grid

- Hydrography
- Current urban boundary
- Current urban region

FIRST BIG URBAN EXPANSION IN CAMPO GRANDE



Arnaldo Estêvão de Figueiredo Residence - 1921

Source: Campo Grande: Memória em palavras, 2006.



Baís' Home - 1918

Source: ARCA, 1986.



José Abrão Building - 1939

Source: ARCA, 1944.



Campo Grande Railway - 1914

Source: Museu Ferroviário de Bauru.

RAILWAY EXPANSION IN MATO GROSSO DO SUL



Source: Personal archive of Carlos Iracy Coelho Netto/ Bruno Ferreira [s/d].



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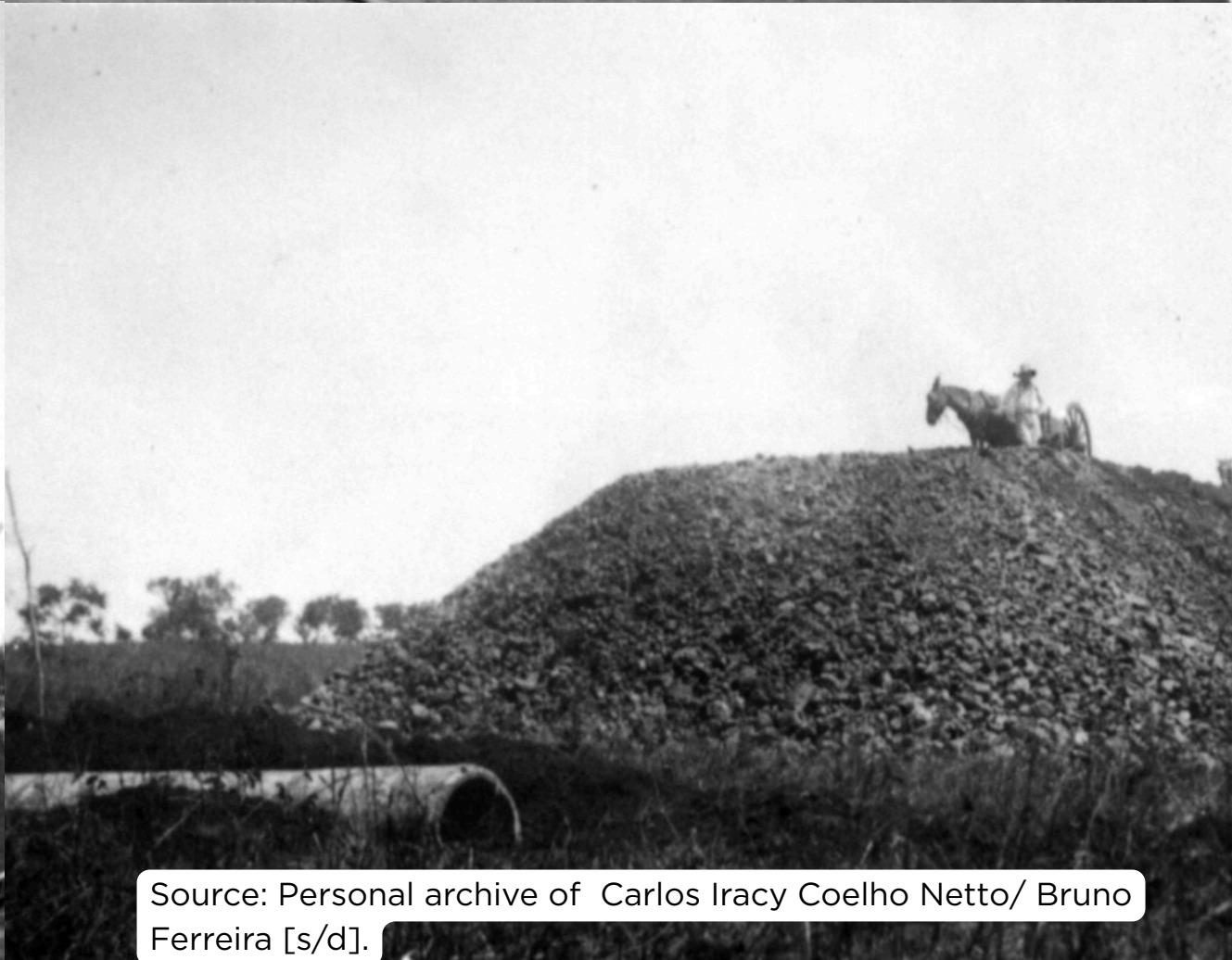
Source: Personal archive of Carlos Iracy Coelho Netto/ Bruno Ferreira [s/d].



Source: Personal archive of Carlos Iracy Coelho Netto/ Bruno Ferreira [s/d].

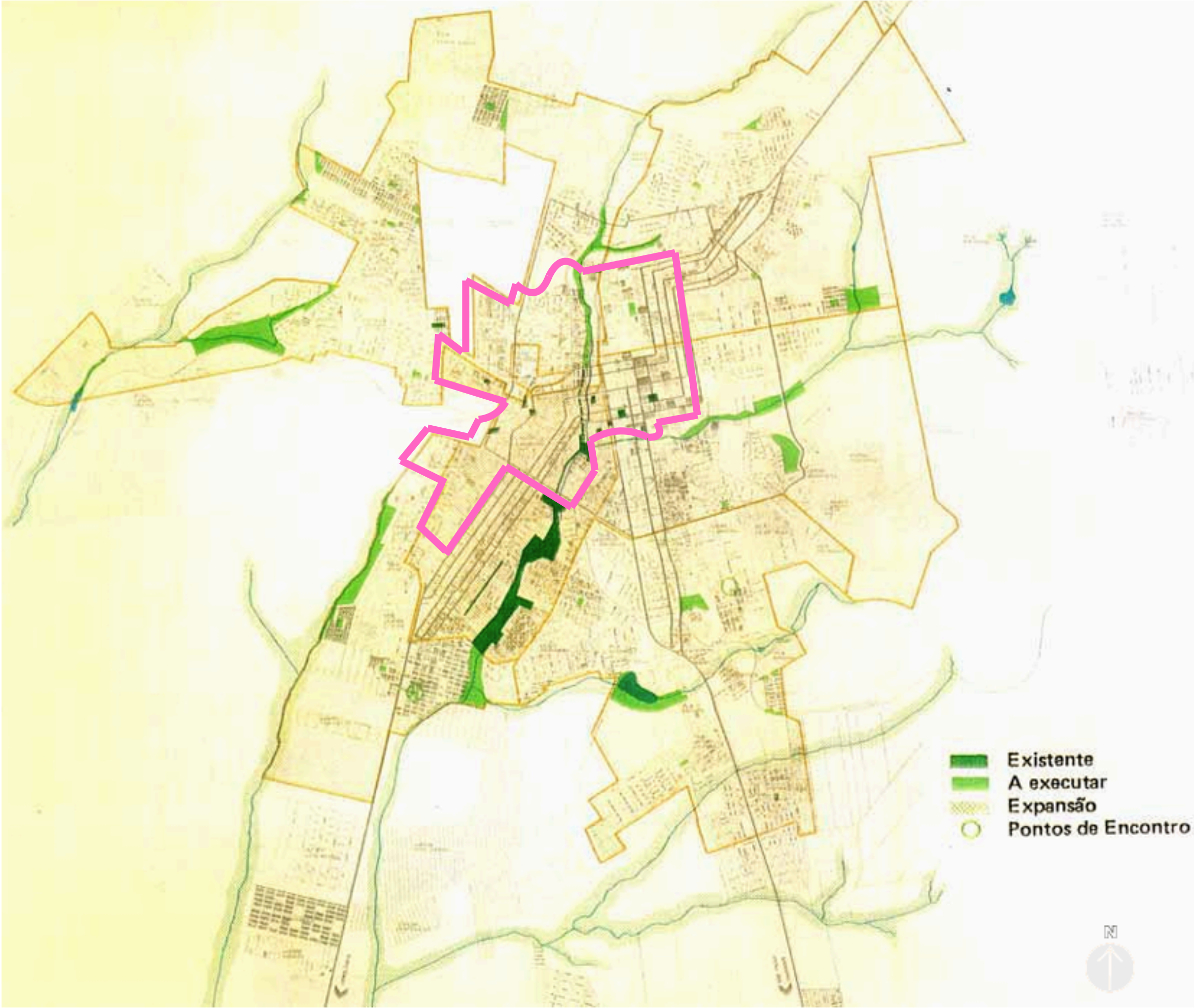


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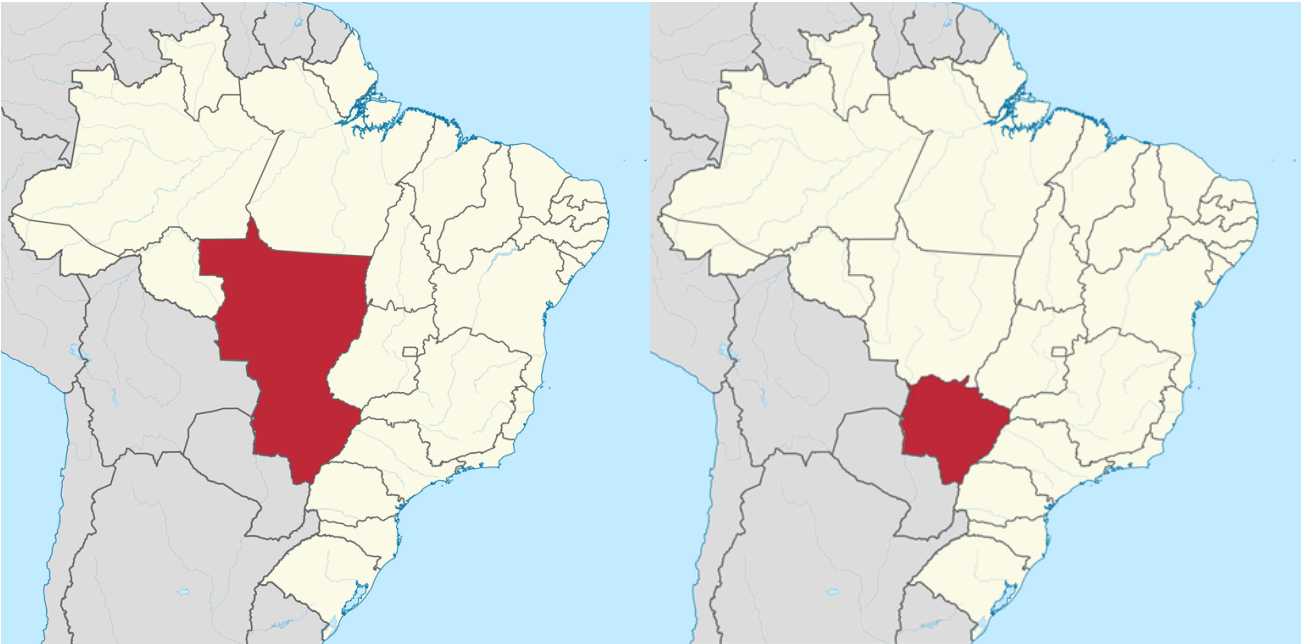
Source: Personal archive of Carlos Iracy Coelho Netto/ Bruno Ferreira [s/d].

JAIME LENNER'S URBAN PLAN FROM 1979



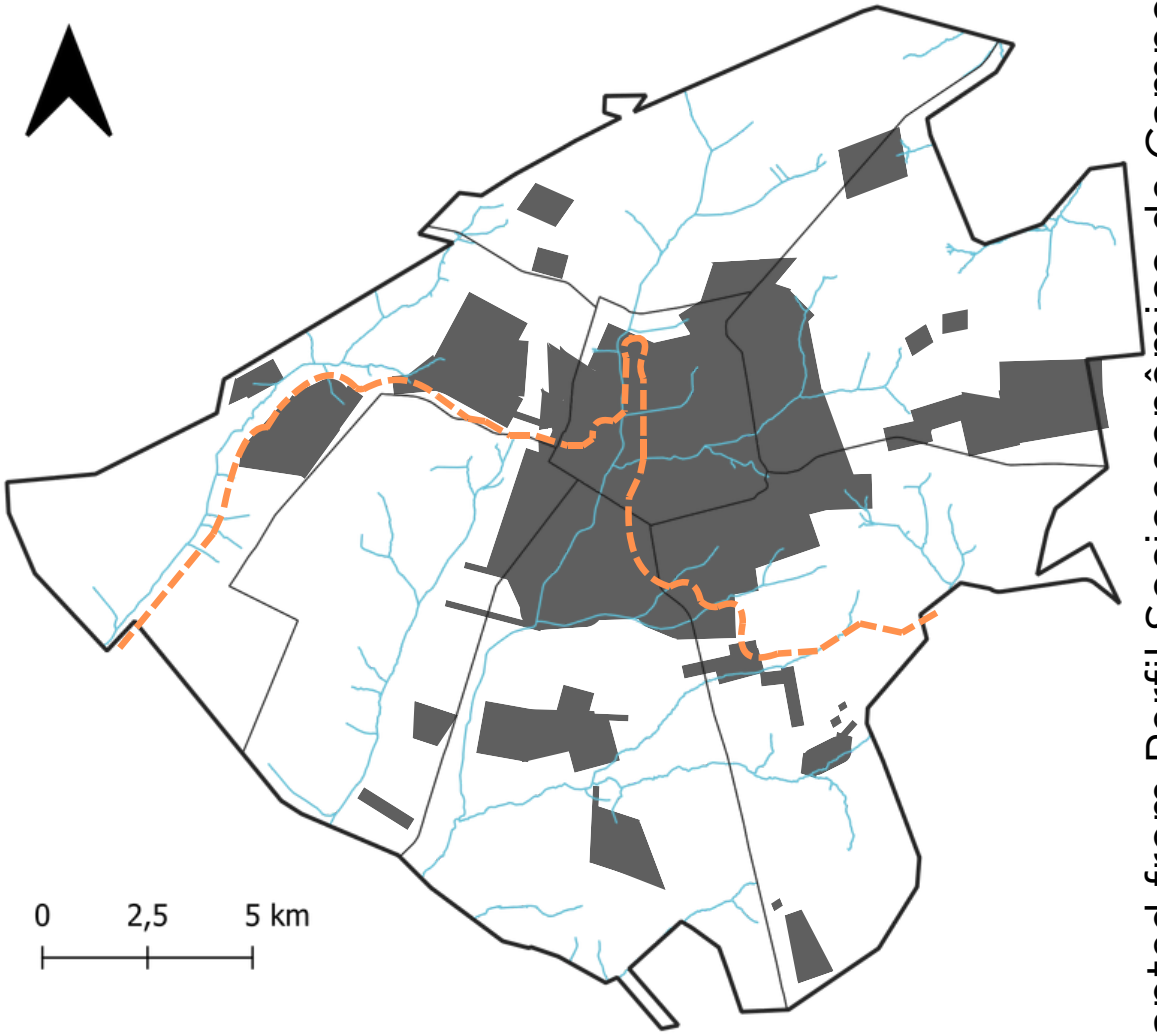
Source: Adapted from Jaime Lerner's Urban Plan - 1979

BEFORE AND AFTER



Source: Adapted from CC BY-SA 3.0

URBAN EXPANSION IN 1970



- KEY**
- Northwestern Brazil Railway (NOB) - 1914
 - Urban grid
 - Hydrography
 - 1939 Saturnino de Brito Plan
 - Current urban boundary
 - Current urban region

Source: Adapted from Perfil Socioeconômico de Campo Grande, 2016.

SECOND WAVE OF URBAN EXPANSION



Maria Constança State School - 1952

Source: ARCA, 1986.



Campo Grande Hotel - 1966

Source: Campo Grande News, 2025



UFMS - 1970

Source: ARCA, 1986.



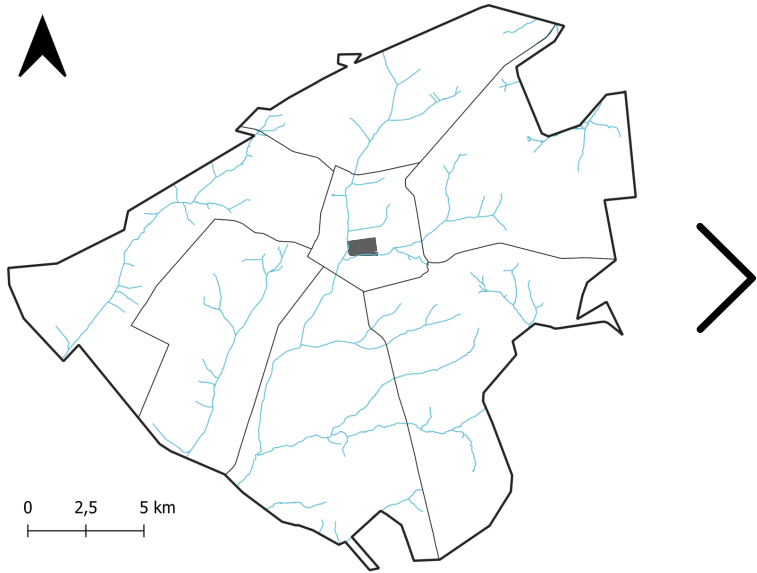
Agepan Building - 1974

Source: Vilanova Artigas - Campo Grande, 2024.

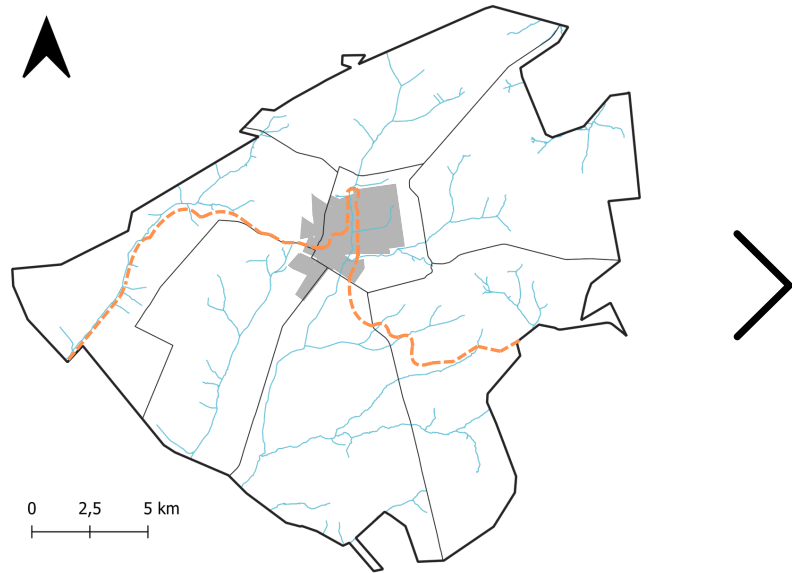
SECOND WAVE OF URBAN EXPANSION



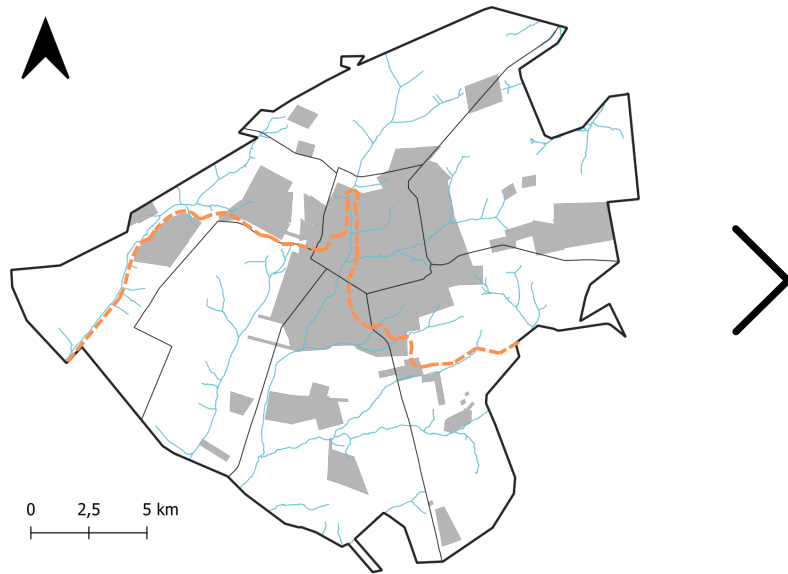
1910



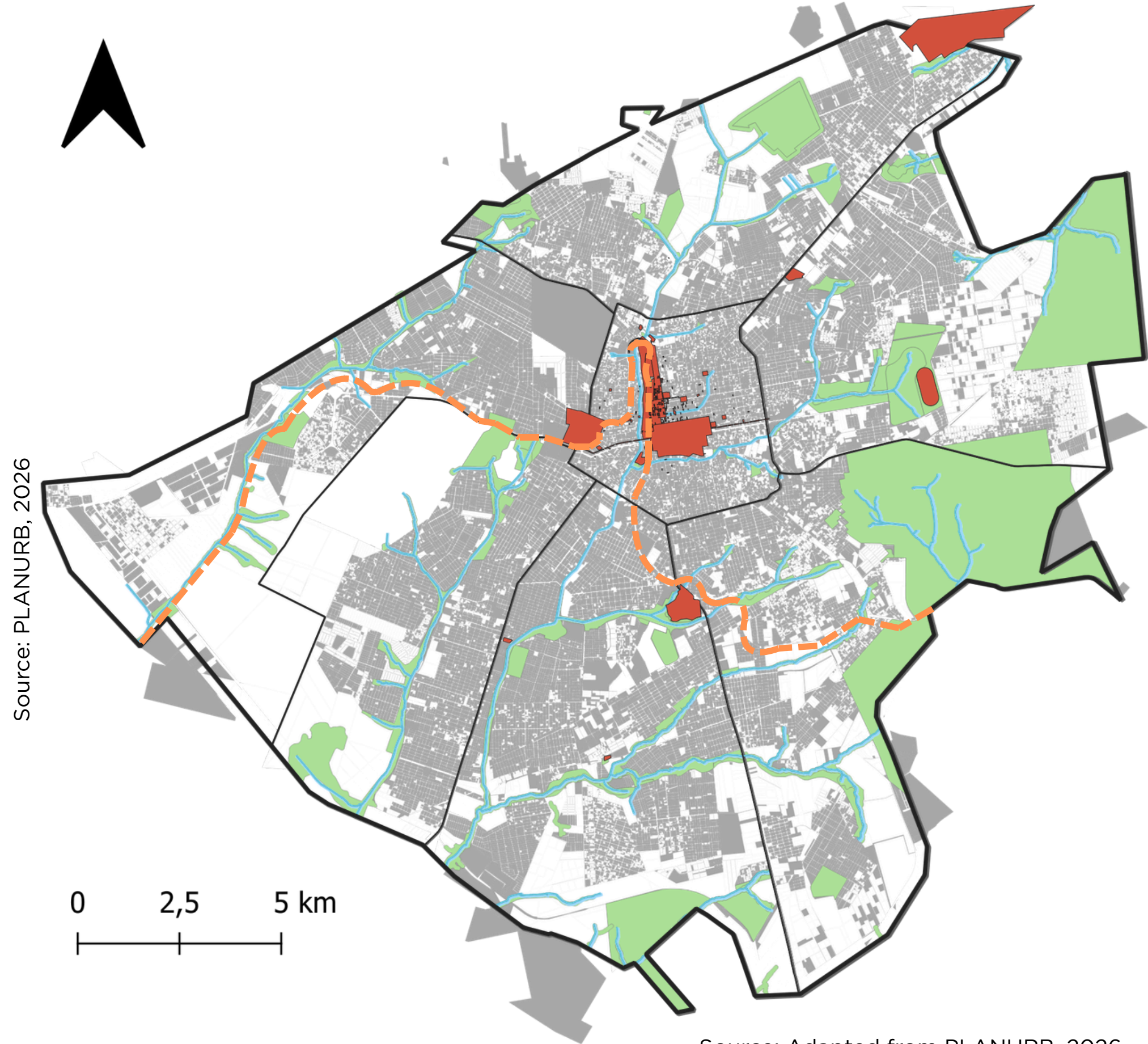
1940



1970



URBAN EXPANSION IN 2026



KEY

Urban grid

Hydrography

Current urban boundary

Current urban region

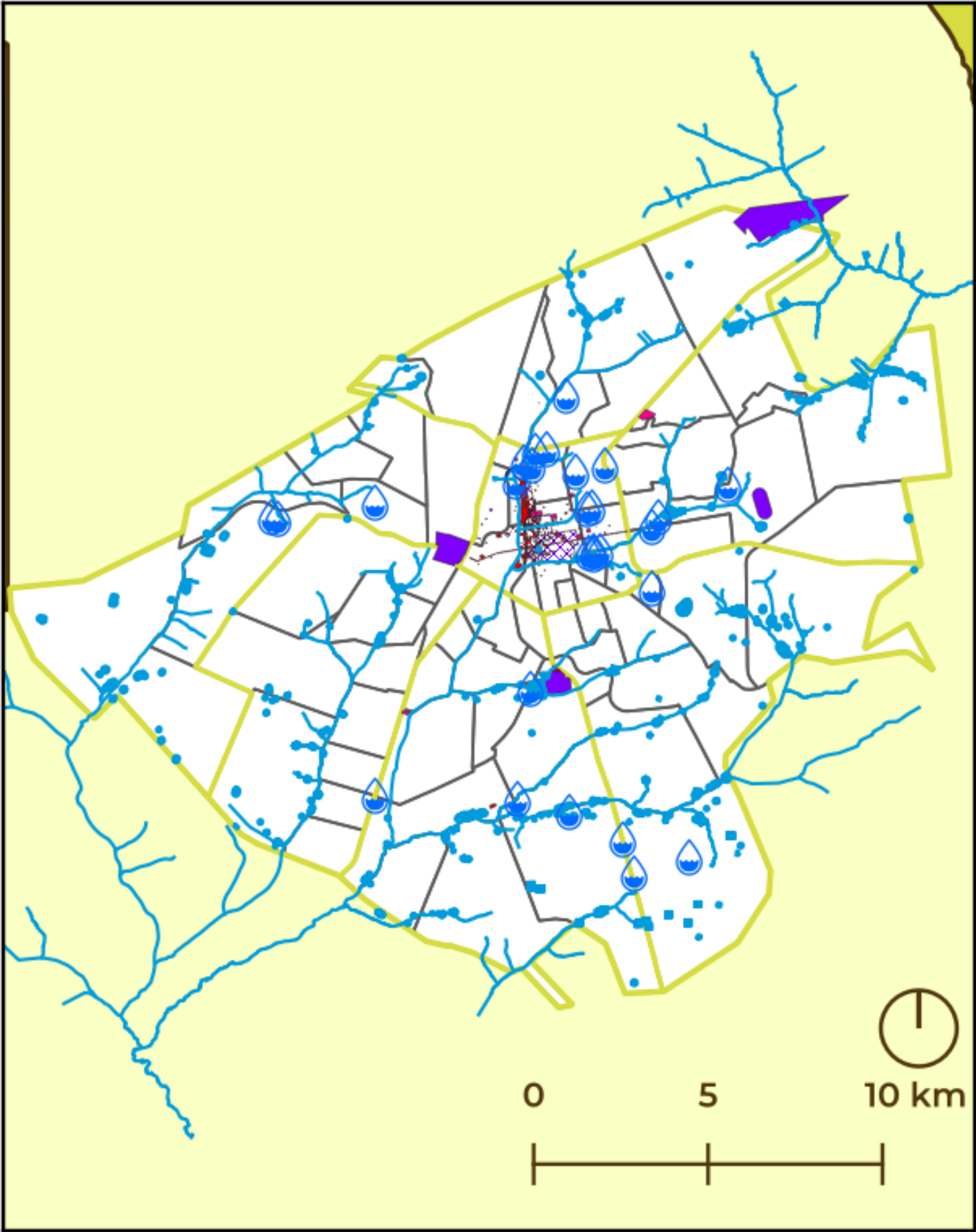
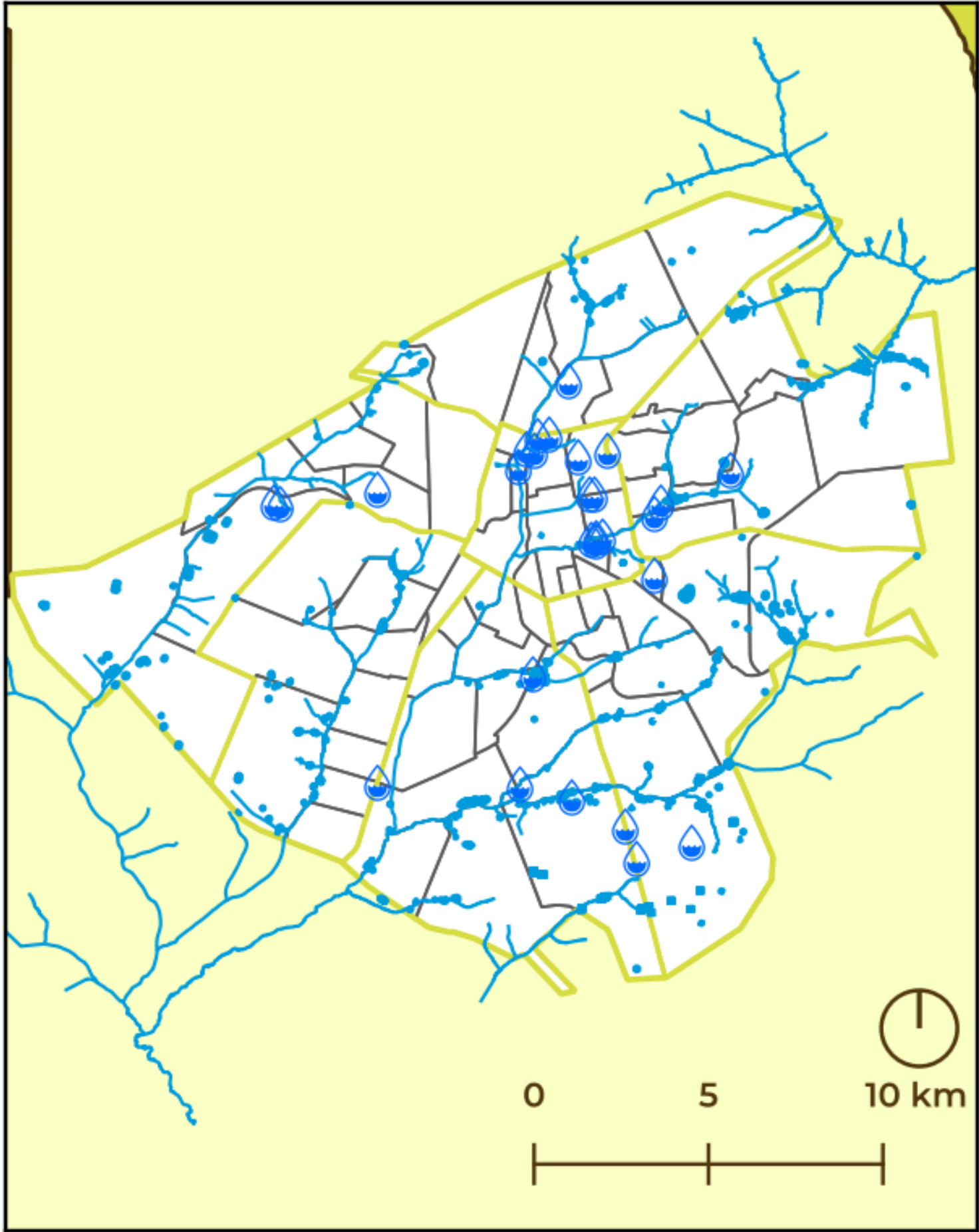
Green areas

Northwestern Brazil Railway (NOB) - 1914

Cultural heritage sites

Source: Adapted from PLANURB, 2026

FLOODING SPOTS X ZEIC's



KEY

- FLOODING SPOTS
- HYDROGRAPHY
- PERMANENT LAGOONS
- Urban areas
- Neighborhoods
- Campo Grande's Urban Perimeter

Especial Zones of Cultural Interest (ZEIC's)

- ZEIC I
- ZEIC I - SURROUNDINGS
- ZEIC II
- ZEIC III
- ZEIC IV - I

FLOODS IN CAMPO GRANDE



Via Park and Afonso Pena avenue - 2012

Source: Valmir Guarinão - Reportagem Midiamax, 2015



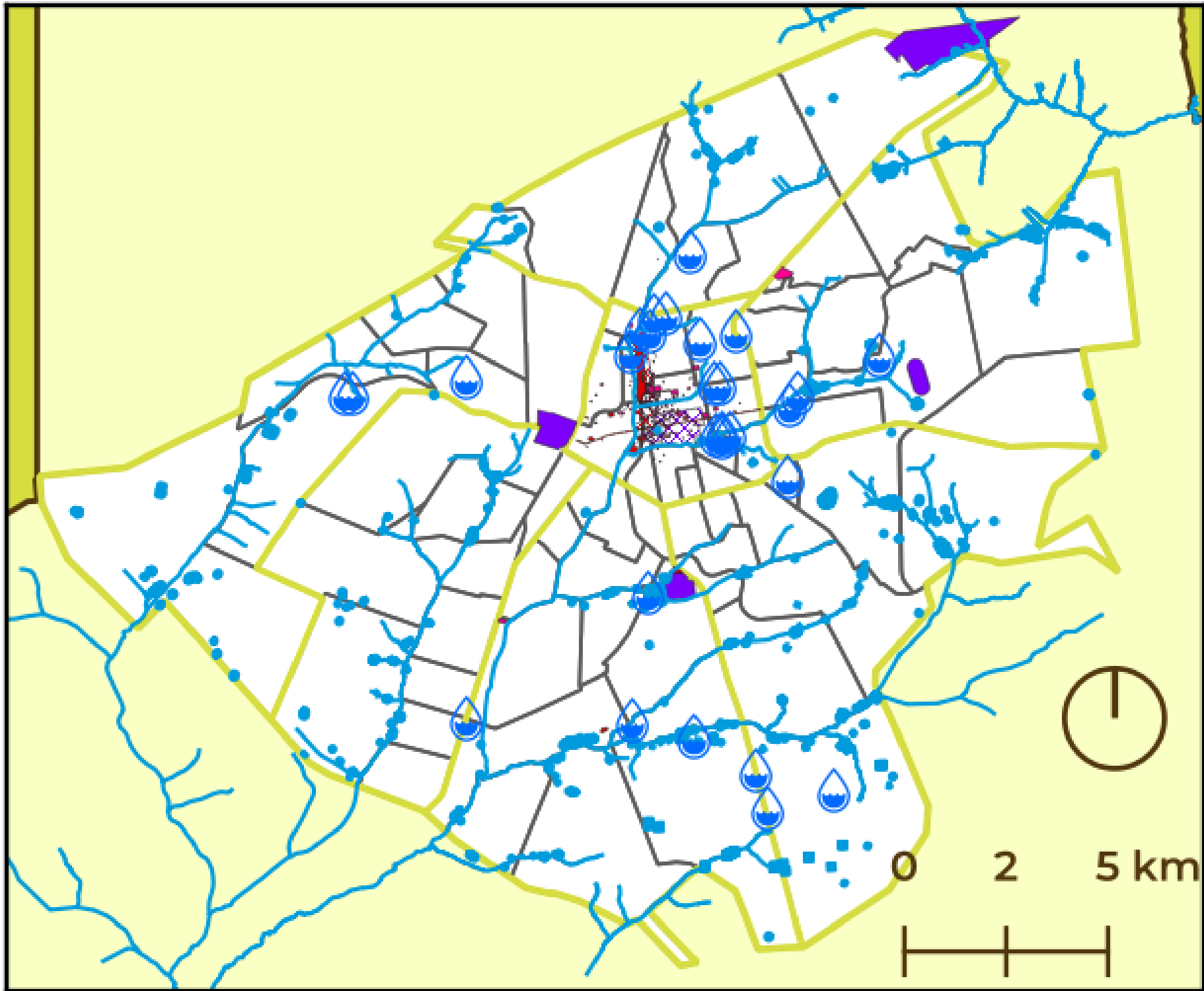
Rachid Neder Avenue - 2025

Source: Campo Grande News, 2025



Ricardo Brandão Avenue - 2010

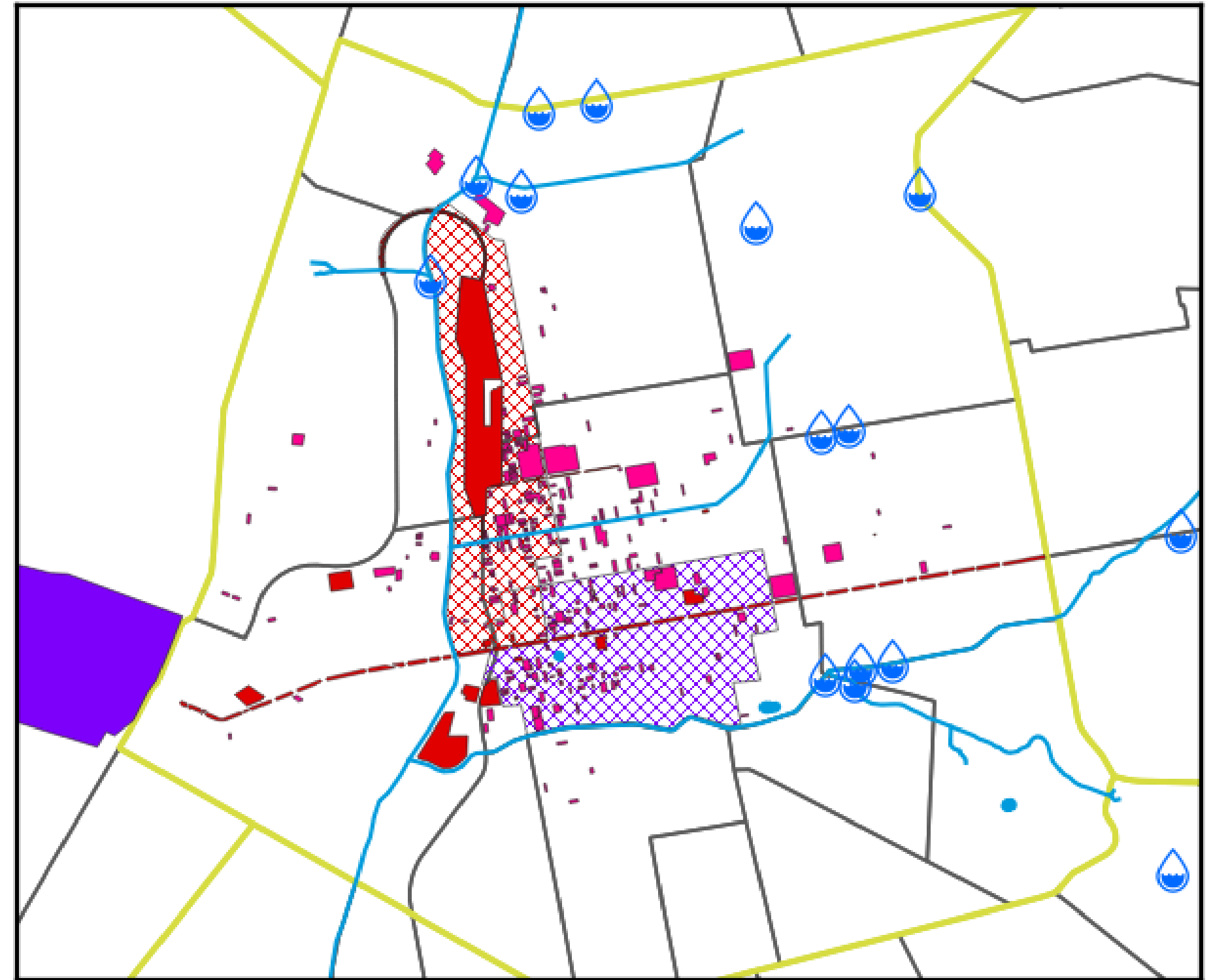
Source: MidiaMax, 2023



Source: adapted from PLANURB CG

KEY

-  FLOODING SPOTS
-  HYDROGRAPHY
-  PERMANENT LAGOONS



Especial Zones of Cultural Interest (ZEIC's)

-  ZEIC I
-  ZEIC I - SURROUNDINGS
-  ZEIC II
-  ZEIC III
-  ZEIC IV - rocío

HISTORICAL FLOODS



Maracaju Street - 1980

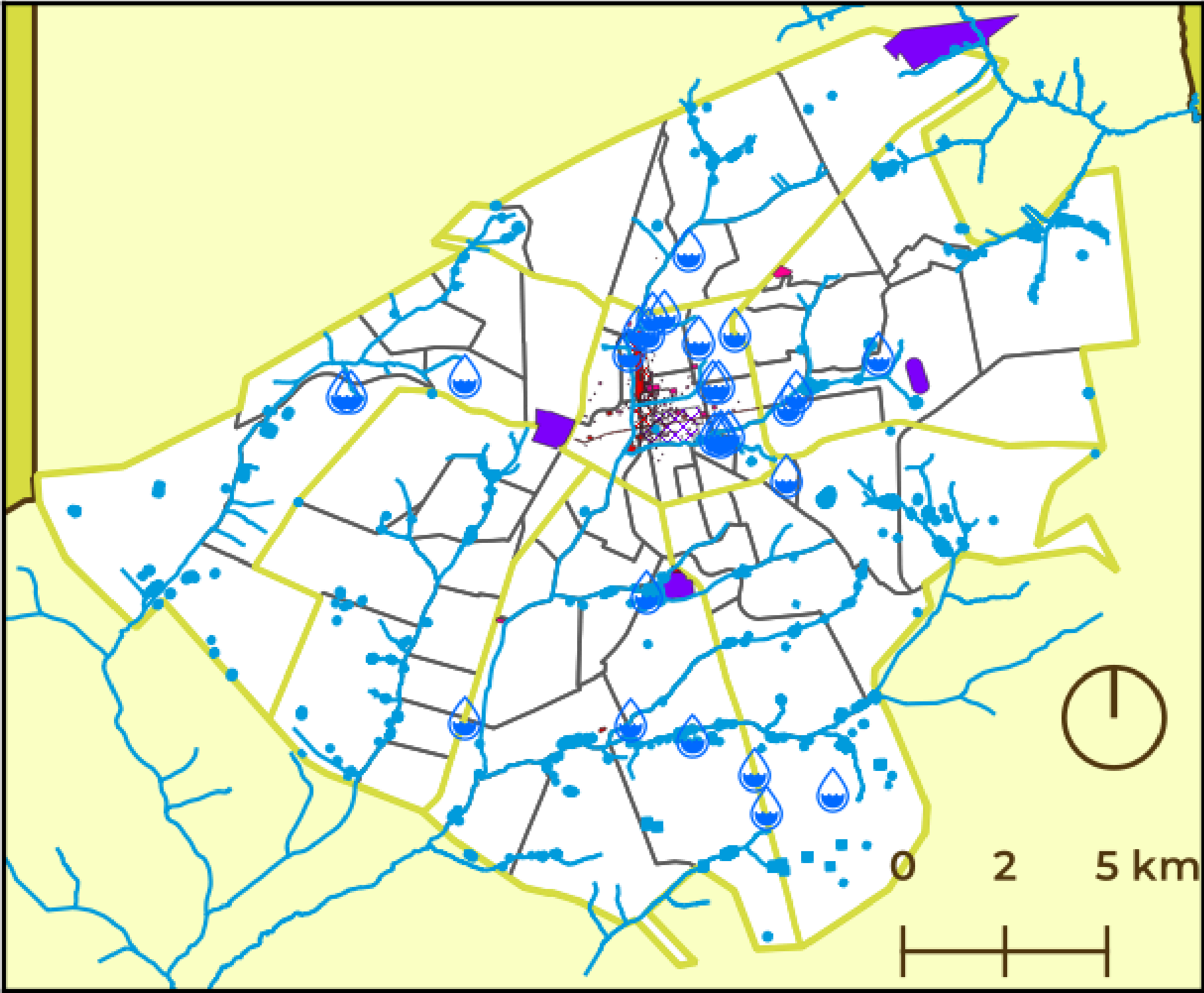
Source: Roberto Higa/Campo Grande News, 2015



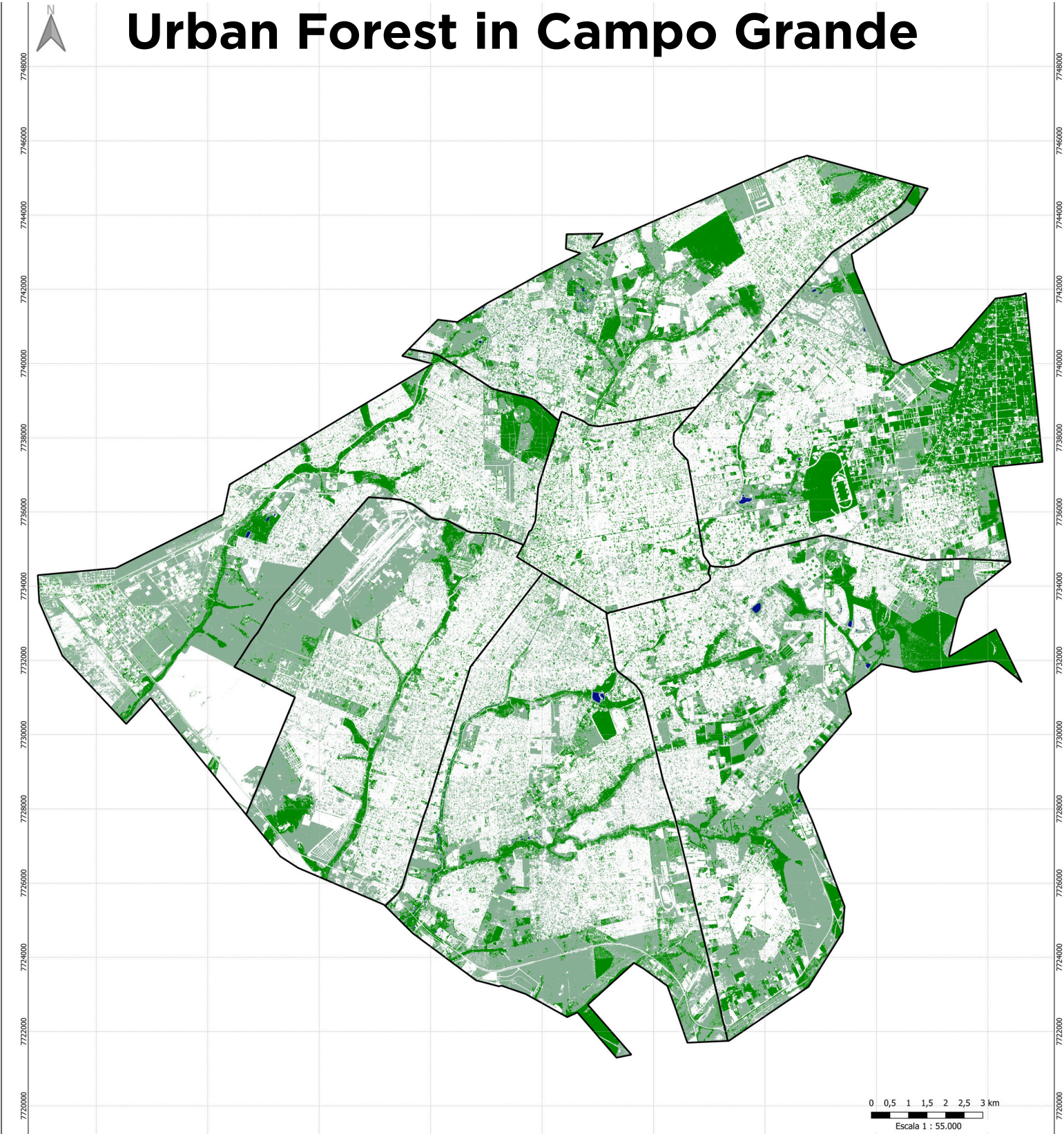
Maracaju Street - 1980

Source: Roberto Higa/Campo Grande News, 2015

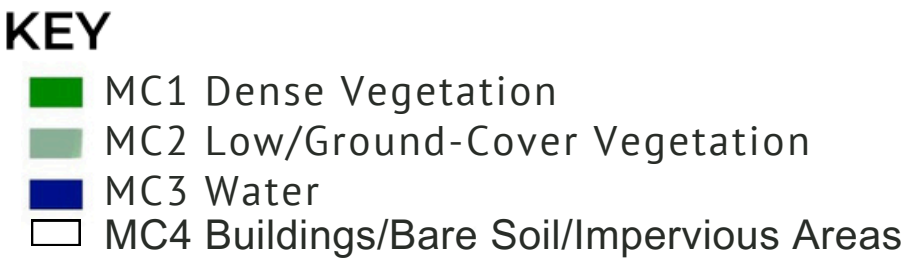
FLOODING SPOTS X URBAN FOREST



Source: adapted from PLANURB CG



Source: adapted from PLANURB CG





Railway Villa

Source: ARCA.



Baís' Home

Source: ARCA.



Campo Grande Railway

Source: ARCA.

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THANK YOU!

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