



COLLABORATING
TO REJUVENATE
URBAN
WETLANDS

NOKIA

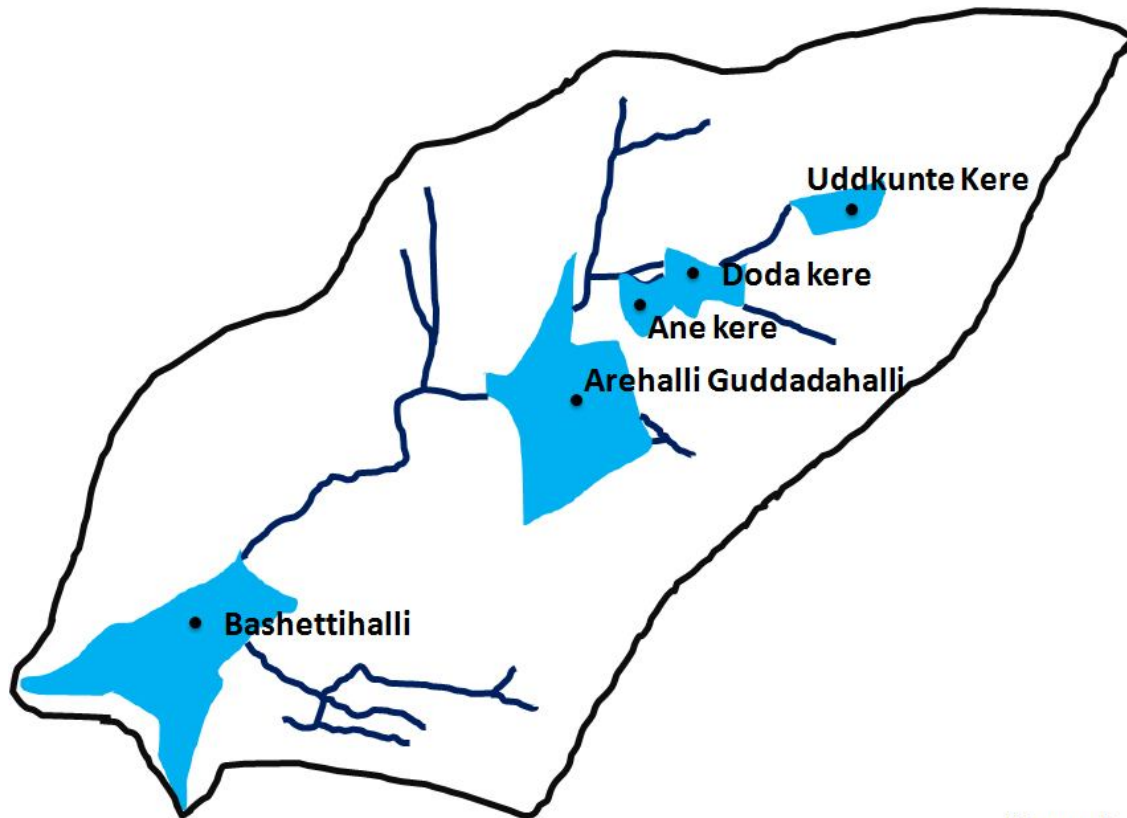
Coming together for Bashettihalli Kere, Doddabellapur, Karnataka

Journey of multi-stakeholder collective action
2016-2019



Gram Panchayat; Industries Association; Citizens

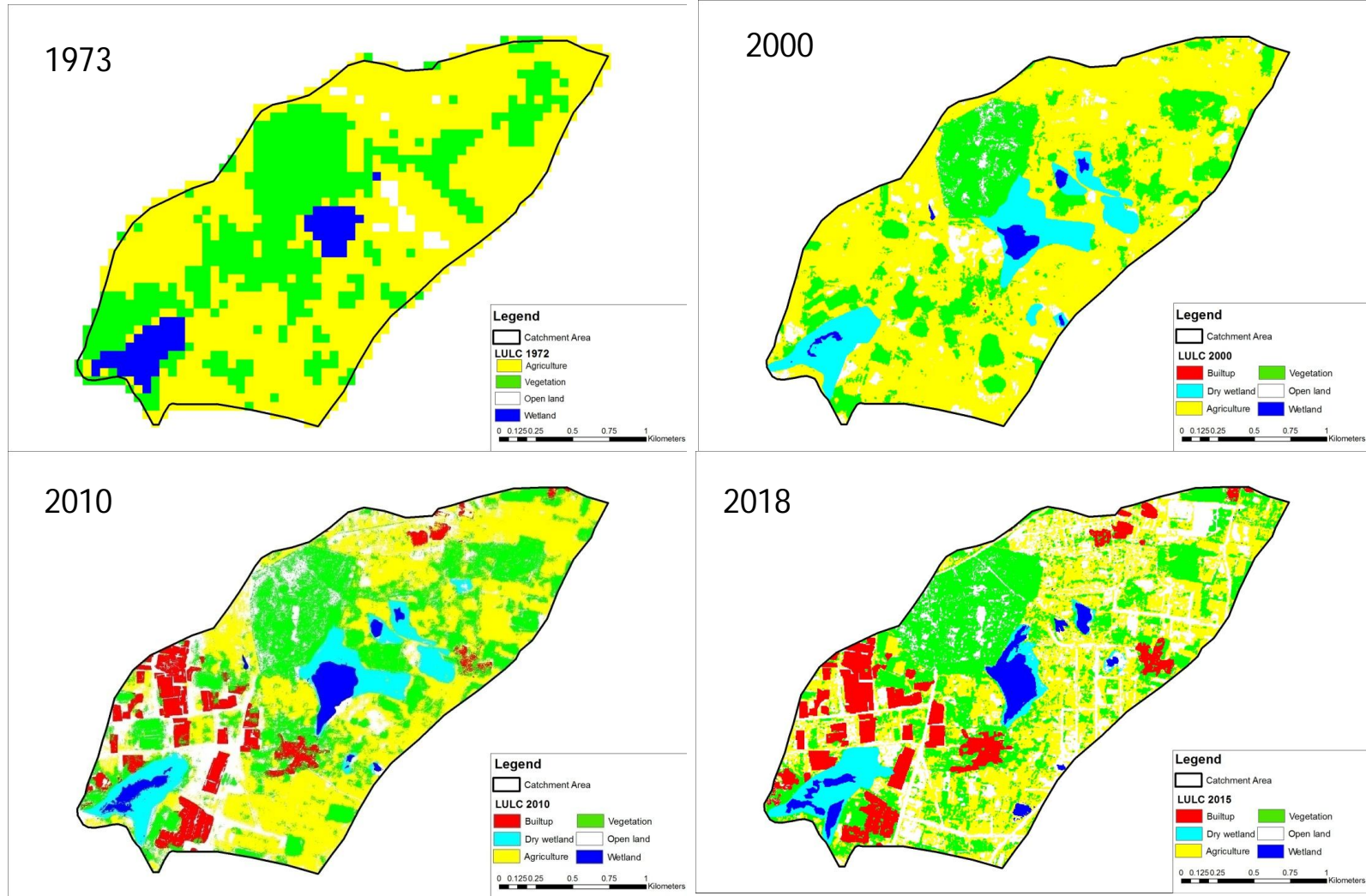
BASHETTIHALLI-PART OF A DEGRADED CASCADE SYSTEM



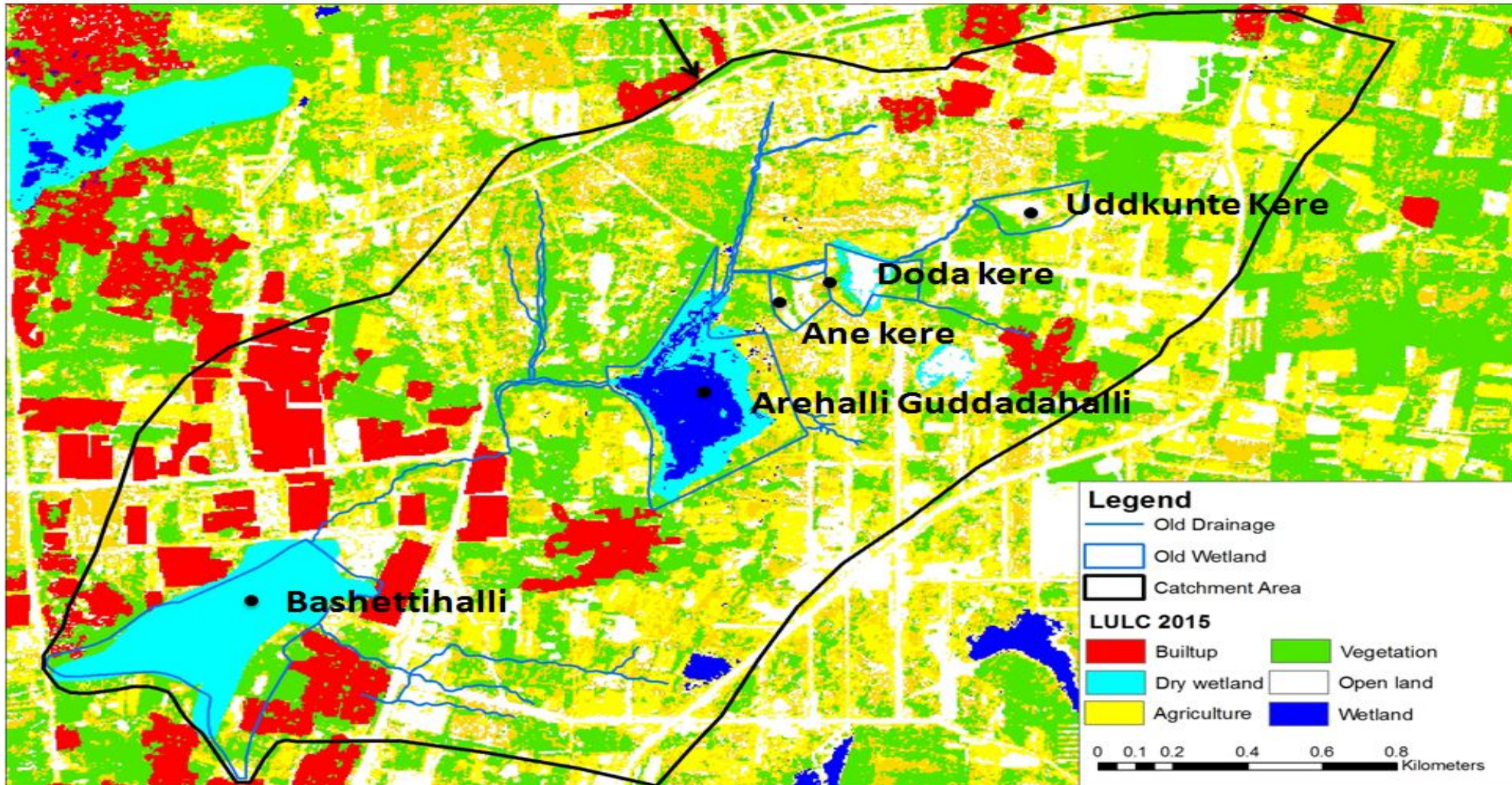
Wetland Area	19.5 hectares
Catchment Area	5 square kilometer
Command Area	50 acres
Waste weir	1
Sluice Gate	1
Inlet channels	2
Birds	61 species

Data source: Revenue Maps

LAND USE PATTERN ALTERS THE HYDROLOGY OF THE WETLAND

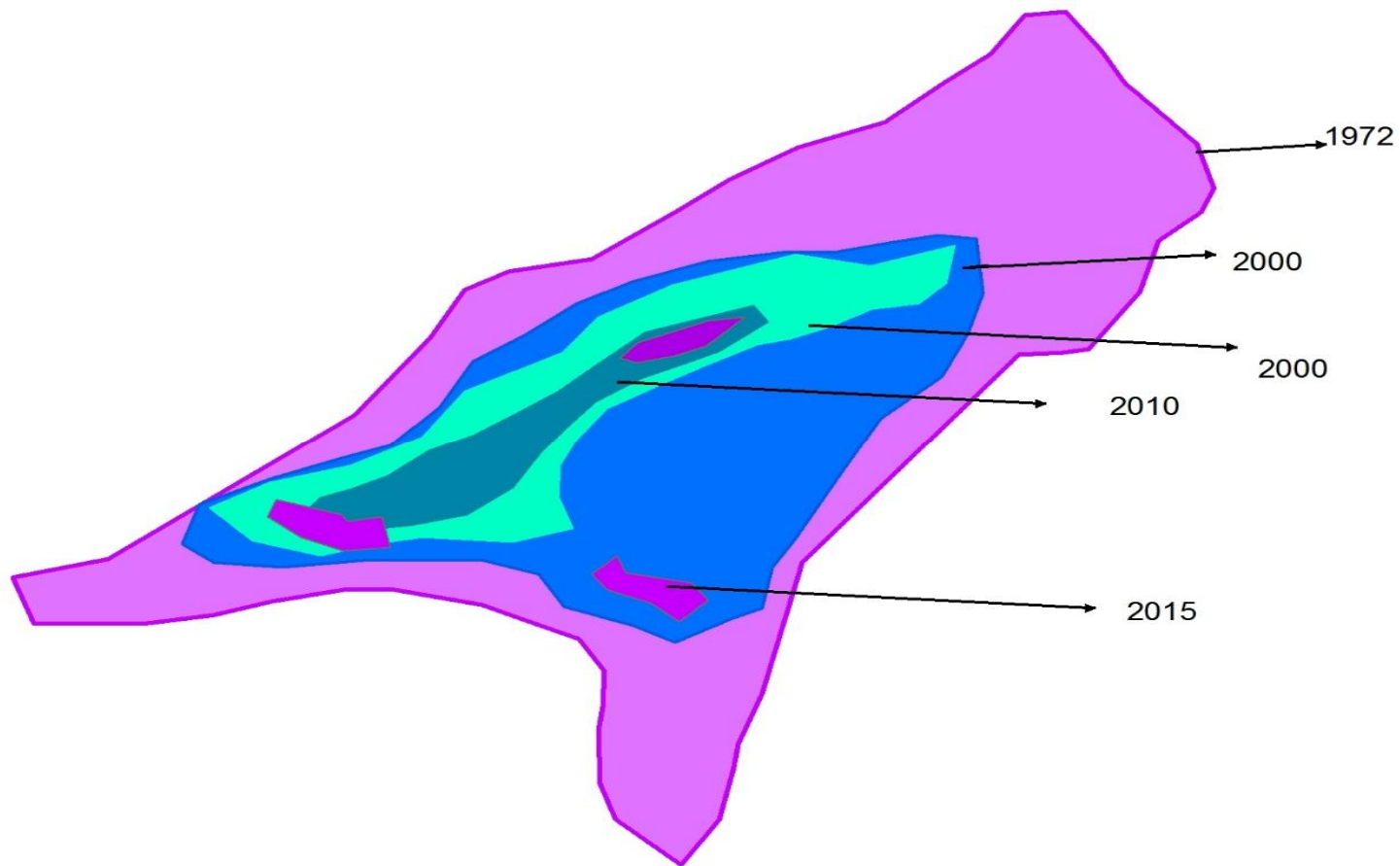


Land use/Land cover-2015

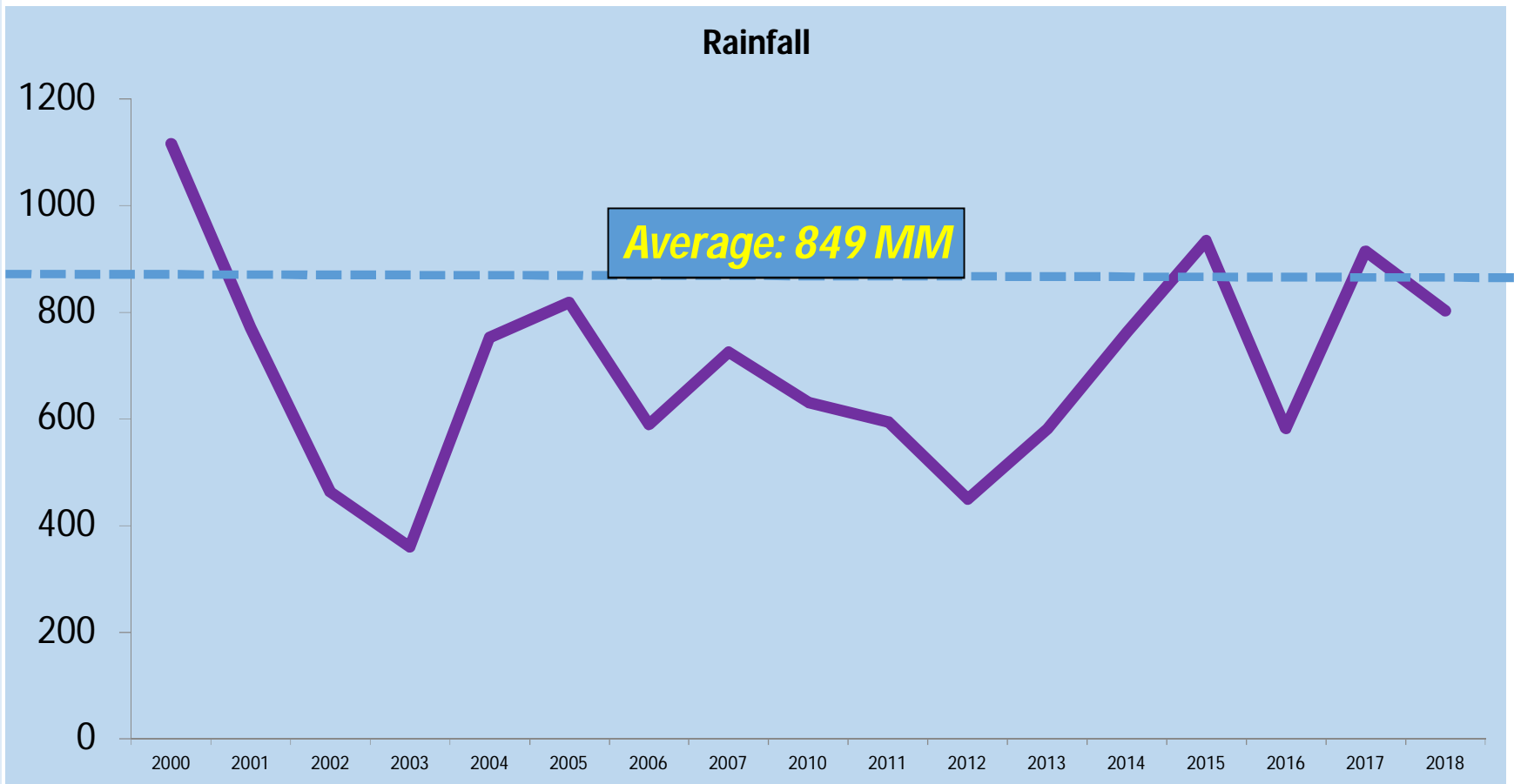


Data source: IRS, Liss-IV Imagery
Dated: 30th Dec, 2015

CHANGE IN WATER SPREAD AREA



2000 – 1166 mm
2001 – 771 mm
2002 – 463 mm
2003 – 360 mm
2004 – 752 mm
2005 – 818 mm
2006 – 590 mm
2007 – 725 mm
2010 – 631 mm
2011 – 595 mm
2012 – 450 mm
2013 – 581 mm
2014 – 763 mm
2015 – 934 mm
2016 – 582 mm
2017 – 914 mm
2018 – 803 mm

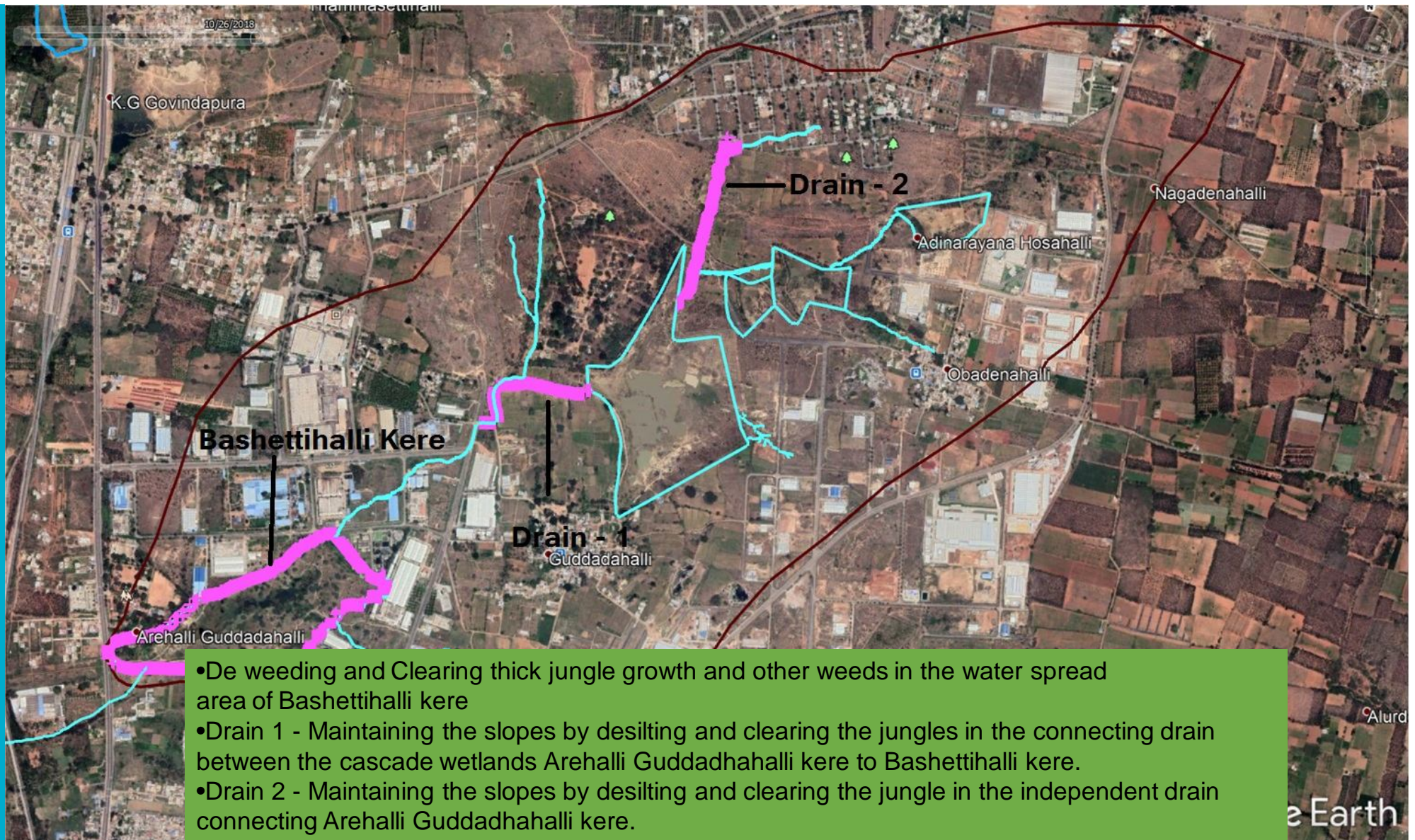


N 2018





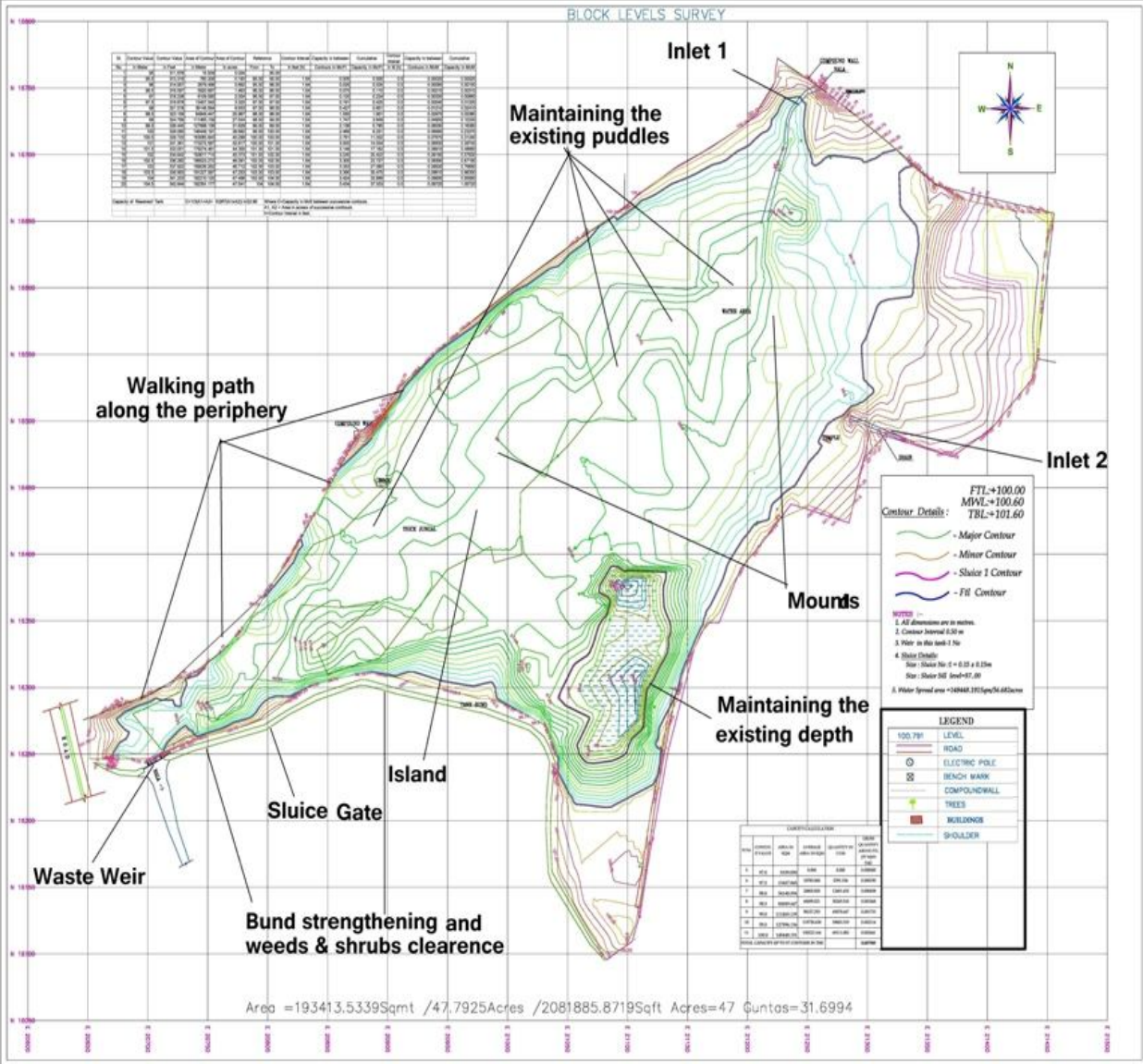




- De weeding and Clearing thick jungle growth and other weeds in the water spread area of Bashettihalli kere
- Drain 1 - Maintaining the slopes by desilting and clearing the jungles in the connecting drain between the cascade wetlands Arehalli Guddadahalli kere to Bashettihalli kere.
- Drain 2 - Maintaining the slopes by desilting and clearing the jungle in the independent drain connecting Arehalli Guddadahalli kere.

BLOCK LEVELS SURVEY

Station	Angle	Distance	Coordinates	Remarks
1+00	90°	100.00	100.00, 0.00	Start of Run
1+05	45°	100.00	100.00, 70.71	
1+10	0°	100.00	100.00, 141.42	
1+15	45°	100.00	100.00, 212.13	
1+20	90°	100.00	100.00, 282.84	
1+25	135°	100.00	100.00, 353.55	
1+30	180°	100.00	100.00, 424.26	
1+35	225°	100.00	100.00, 494.97	
1+40	270°	100.00	100.00, 565.68	
1+45	315°	100.00	100.00, 636.39	
1+50	0°	100.00	100.00, 707.10	
1+55	45°	100.00	100.00, 777.81	
1+60	90°	100.00	100.00, 848.52	
1+65	135°	100.00	100.00, 919.23	
1+70	180°	100.00	100.00, 989.94	
1+75	225°	100.00	100.00, 1060.65	
1+80	270°	100.00	100.00, 1131.36	
1+85	315°	100.00	100.00, 1202.07	
1+90	0°	100.00	100.00, 1272.78	
1+95	45°	100.00	100.00, 1343.49	
2+00	90°	100.00	100.00, 1414.20	
2+05	45°	100.00	100.00, 1484.91	
2+10	0°	100.00	100.00, 1555.62	
2+15	45°	100.00	100.00, 1626.33	
2+20	90°	100.00	100.00, 1697.04	
2+25	135°	100.00	100.00, 1767.75	
2+30	180°	100.00	100.00, 1838.46	
2+35	225°	100.00	100.00, 1909.17	
2+40	270°	100.00	100.00, 1979.88	
2+45	315°	100.00	100.00, 2050.59	
2+50	0°	100.00	100.00, 2121.30	
2+55	45°	100.00	100.00, 2192.01	
2+60	90°	100.00	100.00, 2262.72	
2+65	135°	100.00	100.00, 2333.43	
2+70	180°	100.00	100.00, 2404.14	
2+75	225°	100.00	100.00, 2474.85	
2+80	270°	100.00	100.00, 2545.56	
2+85	315°	100.00	100.00, 2616.27	
2+90	0°	100.00	100.00, 2686.98	
2+95	45°	100.00	100.00, 2757.69	
3+00	90°	100.00	100.00, 2828.40	
3+05	45°	100.00	100.00, 2899.11	
3+10	0°	100.00	100.00, 2969.82	
3+15	45°	100.00	100.00, 3040.53	
3+20	90°	100.00	100.00, 3111.24	
3+25	135°	100.00	100.00, 3181.95	
3+30	180°	100.00	100.00, 3252.66	
3+35	225°	100.00	100.00, 3323.37	
3+40	270°	100.00	100.00, 3394.08	
3+45	315°	100.00	100.00, 3464.79	
3+50	0°	100.00	100.00, 3535.50	
3+55	45°	100.00	100.00, 3606.21	
3+60	90°	100.00	100.00, 3676.92	
3+65	135°	100.00	100.00, 3747.63	
3+70	180°	100.00	100.00, 3818.34	
3+75	225°	100.00	100.00, 3889.05	
3+80	270°	100.00	100.00, 3959.76	
3+85	315°	100.00	100.00, 4030.47	
3+90	0°	100.00	100.00, 4101.18	
3+95	45°	100.00	100.00, 4171.89	
4+00	90°	100.00	100.00, 4242.60	
4+05	45°	100.00	100.00, 4313.31	
4+10	0°	100.00	100.00, 4384.02	
4+15	45°	100.00	100.00, 4454.73	
4+20	90°	100.00	100.00, 4525.44	
4+25	135°	100.00	100.00, 4596.15	
4+30	180°	100.00	100.00, 4666.86	
4+35	225°	100.00	100.00, 4737.57	
4+40	270°	100.00	100.00, 4808.28	
4+45	315°	100.00	100.00, 4878.99	
4+50	0°	100.00	100.00, 4949.70	
4+55	45°	100.00	100.00, 5020.41	
4+60	90°	100.00	100.00, 5091.12	
4+65	135°	100.00	100.00, 5161.83	
4+70	180°	100.00	100.00, 5232.54	
4+75	225°	100.00	100.00, 5303.25	
4+80	270°	100.00	100.00, 5373.96	
4+85	315°	100.00	100.00, 5444.67	
4+90	0°	100.00	100.00, 5515.38	
4+95	45°	100.00	100.00, 5586.09	
5+00	90°	100.00	100.00, 5656.80	
5+05	45°	100.00	100.00, 5727.51	
5+10	0°	100.00	100.00, 5798.22	
5+15	45°	100.00	100.00, 5868.93	
5+20	90°	100.00	100.00, 5939.64	
5+25	135°	100.00	100.00, 6010.35	
5+30	180°	100.00	100.00, 6081.06	
5+35	225°	100.00	100.00, 6151.77	
5+40	270°	100.00	100.00, 6222.48	
5+45	315°	100.00	100.00, 6293.19	
5+50	0°	100.00	100.00, 6363.90	
5+55	45°	100.00	100.00, 6434.61	
5+60	90°	100.00	100.00, 6505.32	
5+65	135°	100.00	100.00, 6576.03	
5+70	180°	100.00	100.00, 6646.74	
5+75	225°	100.00	100.00, 6717.45	
5+80	270°	100.00	100.00, 6788.16	
5+85	315°	100.00	100.00, 6858.87	
5+90	0°	100.00	100.00, 6929.58	
5+95	45°	100.00	100.00, 7000.29	
6+00	90°	100.00	100.00, 7071.00	



Area = 193413.5339Sqmt / 47.7925Acres / 2081885.8719Sqft Acres=47 Guntas=31.6994



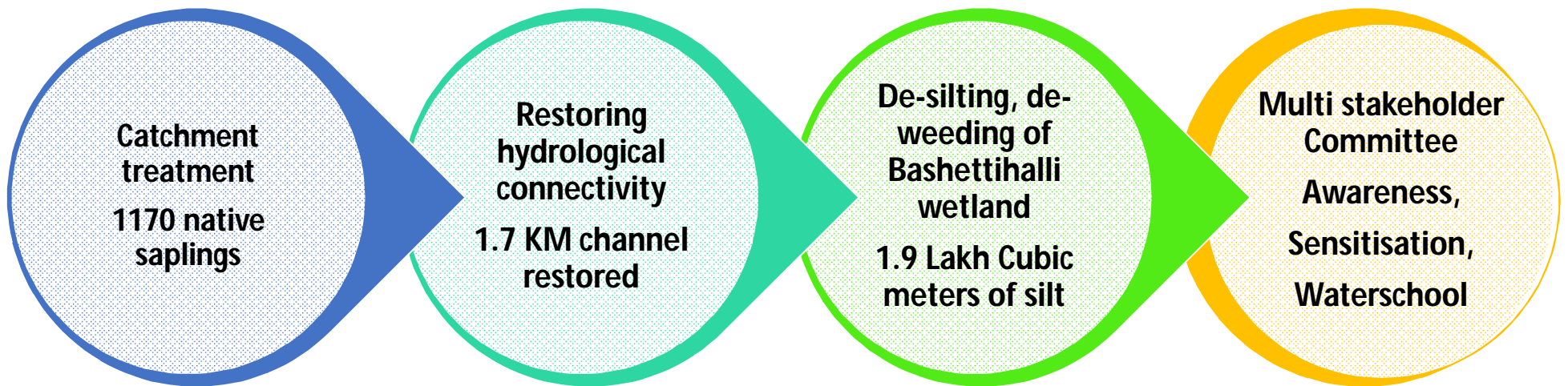
Before the rejuvenation work

DC visit to Bashettihalli





ACTION ON THE GROUND LED BY MULTI-STAKEHOLDER COMMITTEE



Gram Panchayat; Industries Association; local Communities



1170 native saplings; 100% survival







Water School Programme

Presentation to Company Name



WWF COLLABORATING TO REjuvenATE URBAN WETLANDS NOKIA

Restoration and Conservation of Urban Wetlands in Karnataka



↑
ಚಕ್ರ ತಿರುಗಿಸಿ ನೀರು ಉಳಿಸಿ
SPIN TO SAVE WATER!

WETLAND HEALTH ASSESSMENT



DESILTING



DEWEEDING



Active engagement and monitoring by Committee



CONNECTING DRAIN BETWEEN AREHALLI GUDDADHAHALLI & BASHETTIHALLI WETLAND



Before



After



Rainwater flowing in the channel

**Independent drain joining to Arehalli Guddadahalli wetland
(upstream of Bashettihalli)**





Before



After



Before



After



Before



After



Before



After

JUNE 2016



JUNE 2017



JUNE 2018



JUNE 2019





Thank You