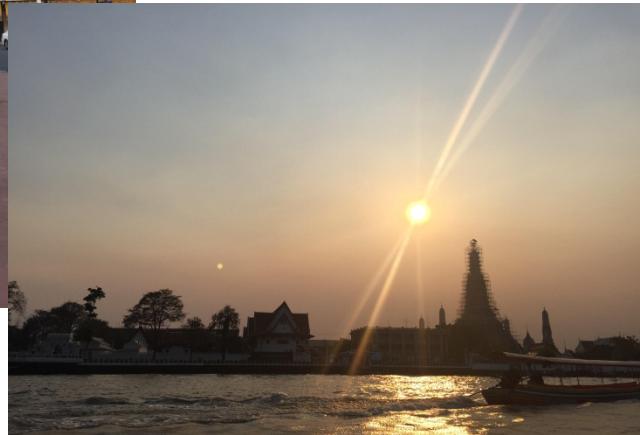


High Risk Road Fatalities and Crashes

Districts in Bangkok



**Bloomberg
Philanthropies**
INITIATIVE FOR GLOBAL ROAD SAFETY

April 24, 2017

Methodology:

Using the road fatalities and crashes from 2013 to 2016 to calculate the number of road deaths and crashes and ranking the top 12 high-risk districts in Bangkok.

Sources:

Website Thai Road Safety Center

www.ThaiRSC.com

<http://www.thairsc.com/p77/index.htm?provid=10>

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Adviser:

Grant Ennis, Vital Strategies

Updated in April 24, 2017

Summary

Bangkok is the capital of Thailand and also it is the most populated of the country. Bangkok has got a special act as special city, which is call, the Bangkok Metropolitan Administration: BMA.

In 2016, Bangkok has an estimated population of 8.28 million according to data from the 2010 census. This number is up significantly from the 6.3 million recorded in 2000. The city is home to over 13% of the country's total population, and more than 10.6 million registered people were reported to live in the Bangkok Metropolitan Region according figures from April 2015.¹

Bangkok size, with an area of 1,568.737 sq.km., ranks 68th in size out of the country. Figure 1. Map showing the 50 districts of Bangkok divided into 12 clusters. Existing land use: which consists of an urbanized area of 700 sq.km.; 23% is for residential use (366.38 sq.km.); 23.58% is agricultural use (378.97 sq.km.) and less for commercial, industrial and government use.

Bangkok has subdivided 50 districts and it has 12 clusters area as follows:

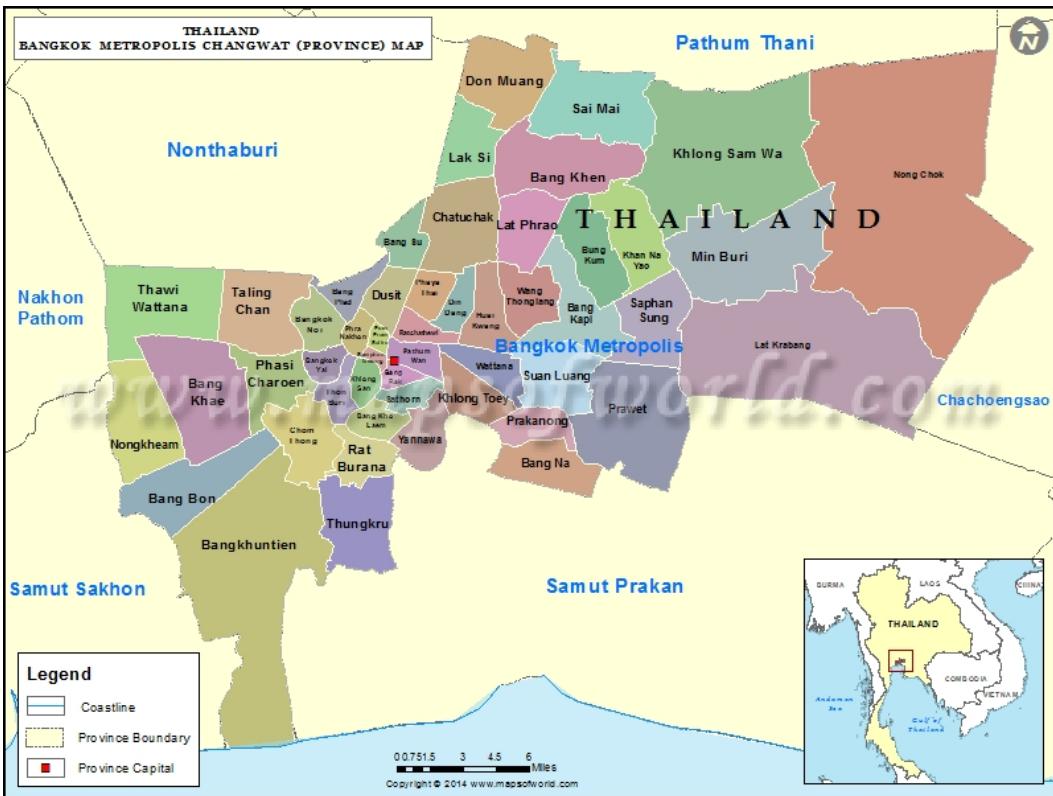
1. Rattanakosin (Old City): Phra Nakhon, Dusit, Pom Prap Sattru Phai, Samphanthawong
2. Lumpini (CBD: Central Business District): Bang Rak, Pathum Wan, Sathon, Watthana
3. Vibhavadi: Phaya Thai, Huai Khwang, Din Daeng, Bang Sue, Chatuchak, Ratchathewi
4. Chaophraya: Phra Khanong, Yan Nawa, Bang Kho Laem, Khlong Toei, Bang Na
5. Thonburi: Thon Buri, Bangkok Yai, Khlong San, Bangkok Noi, Bang Phlat
6. Taksin: Phasi Charoen, Rat Burana, Chom Thong
7. Phra Nakhon Nuea (Northern Bangkok): Bang Khen, Don Mueang, Lat Phrao, Lak Si, Sai Mai
8. Burapa (East) Bangkok: Bang Kapi, Bueng Kum, Suan Luang, Khan Na Yao, Saphan Sung, Wang Thonglang
9. Suvintawong (Northeast Bangkok): Nong Chok, Khlong Sam Wa
10. Srinakarin (Southeast Bangkok): Min Buri, Lat Krabang, Prawet
11. Mahasawad (Northwest Bangkok): Taling Chan, Nong Khaem, Bang Khae, Thawi Watthana
12. Sanamchai (Southwest Bangkok): Bang Khun Thian, Thung Khru, Bang Bon²

Bangkok city planning: the main idea of the new Bangkok City Plan is that the design focus should be on making the capital a “compact city”. That requires people to get to their workplace quickly and keep their travel costs down by using an expanded mass-transit system. The new plan incorporates six major changes:

1. Green buildings constructed using the Thai Green Building Institute’s standards will receive 20 per cent more space under the Floor Area Ratio standard.
2. Low-income housing will get up to 20 % extra space under the Floor Area Ratio standard.
3. Three new commercial hubs will be built in Min Buri, Taling Chan and WongwianYai district.
4. Five locations will have their classifications changed from moderately populated to high-density areas: Min Buri district, Taling Chan district, Changwattana road, Pattanakarn Junction until Srinakarin Road, and WongwianYai district.
5. Three locations will have their classifications changed from moderately populated to low-density areas: Bang Khunthien district, which has large areas of mangrove forest; Bang Bon district; and some locations in Bangkok Noi district.
6. New wastewater-system and floor-area plans will be designed.³

¹ <http://worldpopulationreview.com/world-cities/bangkok-population/>

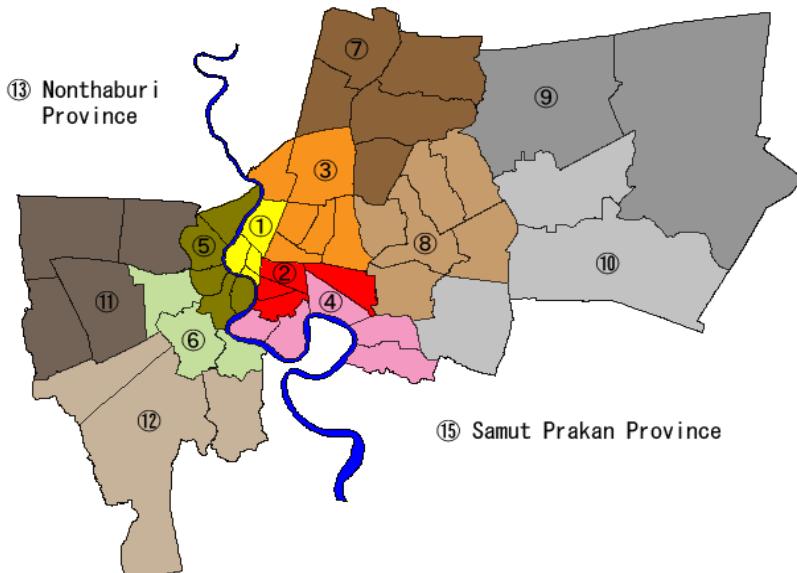
² <http://www.soidb.com/bangkok/map-static.html?mode=zone>



Bangkok Districts Map

Bangkok Metropolitan

⑭ Pathum Thani Province



Bangkok Cluster Area

³ <http://cpd.bangkok.go.th/eng-map.html>

Bangkok has the high-risk districts on road fatalities and crashes. When we tried using the road fatalities and crashes from 2013 to 2016 to calculate the number of road deaths and crashes and ranking the top 12 high-risk districts in Bangkok as follows.

Ranking	District	Fatalities					Injuries				
		2013	2014	2015	2016	Total	2013	2014	2015	2016	Total
Top1	Lardkrabang	33	26	30	33	122	986	1,075	1,155	1,545	4,761
Top2	BangKhuntien	28	21	33	26	108	1,282	1,308	1,520	1,908	6,018
Top3	Nongjk	32	20	19	23	94	412	369	431	518	1,730
Top4	Prawet	19	18	28	27	92	1,102	1,168	1,262	1,696	5,228
Top5	Meanburi	29	22	17	19	87	709	730	900	886	3,225
Top6	Talingchan	19	18	17	21	75	688	736	817	892	3,133
Top7	Saimai	11	17	21	22	71	770	812	957	1,105	3,644
Top8	Bangkhen	11	13	24	21	69	759	735	800	1,002	3,296
Top9	Lardpraw	15	18	18	17	68	1,332	1,329	1,528	1,448	5,637
Top10	Dongmueang	19	12	12	20	63	437	411	394	382	1,624
Top11	Bangbone	16	9	18	18	61	1,091	1,170	1,558	2,100	5,919
Top12	Chomthong	9	12	20	13	54	798	1,112	1,183	1,163	4,256
	Total	241	206	257	260	964	10,366	10,955	12505	14,645	48,471

Table of number of road deaths and crashes during 2013- 2016 ⁴

In additional all of top 12 districts are the industry area and the border of Bangkok. There has quite high road fatalities and there is a half of road deaths in Bangkok per year. That means if we can protect and work actively strong around there, it will be reduced the number of fatality and crashes in Bangkok productively.

⁴ <http://www.thairsc.com/p77/index.htm?provid=10>

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Top 5: Meanburi District	28-32
Top 6: Talingchan District	33-38
Top 7: Saimai District	39-44
Top 8: Bangkhen District	45-50
Top 9: Lardpraw District	51-55
Top 10: Dongmueang District	56-58
Top 11: Bangbone District	59-69
Top 12: Chomthong District	70-76

12 High Risk Districts for Crash between 2013-2016

Table 1: Rank of High Risk Districts for Crash

Ranking High Risks	District
1	Lardkrabang
2	BangKhuntien
3	Nongjk
4	Prawet
5	Meanburi
6	Talingchan
7	Saimai
8	Bangkhen
9	Lardpraw
10	Dongmueang
11	Bangbone
12	Chomthong

Crash Data between 2013-2016

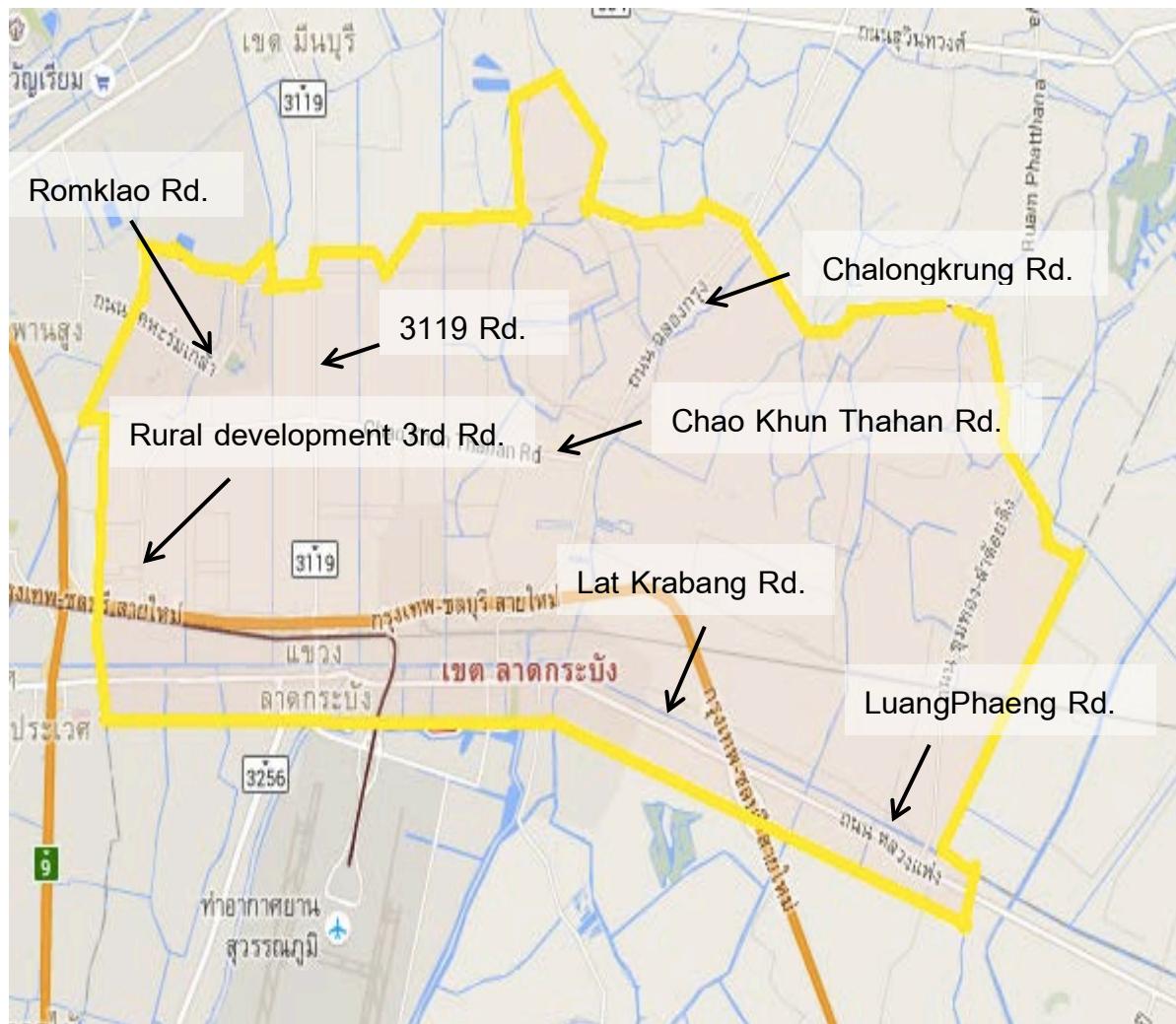
Table 2: Crash Data of High Risk Districts Between 2013-2016

Source: ThaiRSC, <http://www.thairsc.com/p77/index.htm?provid>

Ranking	District	Fatalities					Injuries				
		2013	2014	2015	2016	Total	2013	2014	2015	2016	Total
Top1	Lardkrabang	33	26	30	33	122	986	1,075	1,155	1,545	4,761
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Top5	Meanburi	29	22	17	19	87	709	730	900	886	3,225
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Top10	Dongmueang	19	12	12	20	63	437	411	394	382	1,624
Top11	Bangbone	16	9	18	18	61	1,091	1,170	1,558	2,100	5,919
Top12	Chomthong	9	12	20	13	54	798	1,112	1,183	1,163	4,256

1) Lardkrabang

Picture 1: The Main Road of Lardkrabang District.



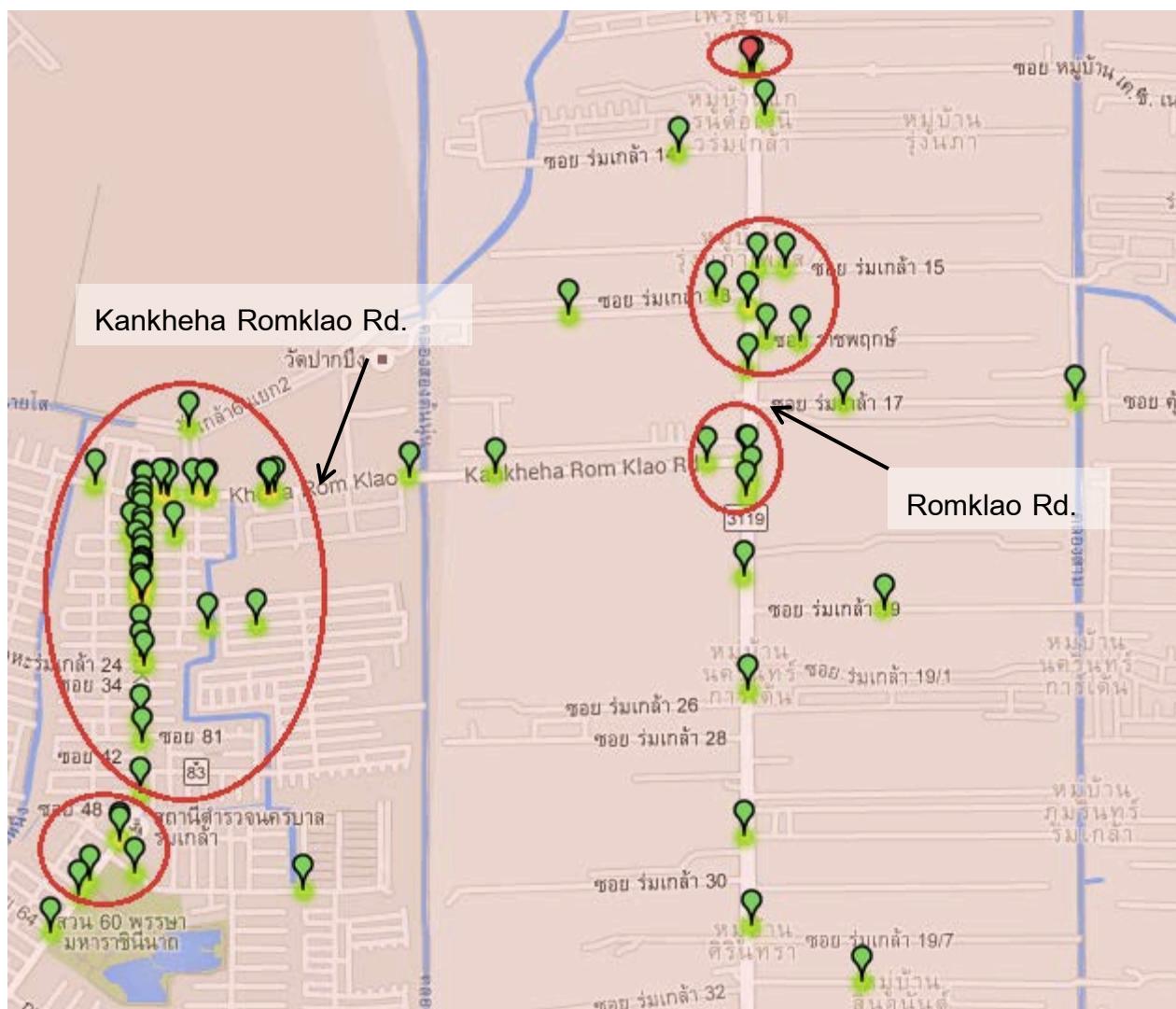
Lardkrabang district has a main road below.

- 1) Romkla Rd. / 2) 3119 Rd. / 3) Chalongkrung Rd. / 4) Rural development 3rd Rd. / 5) Chao Khun Thahan Rd. / 6) Lat Krabang Rd. / 7) LuangPhaeng Rd.

Table 3: Compared overview area of Lardkrabang district between 2013-2016.



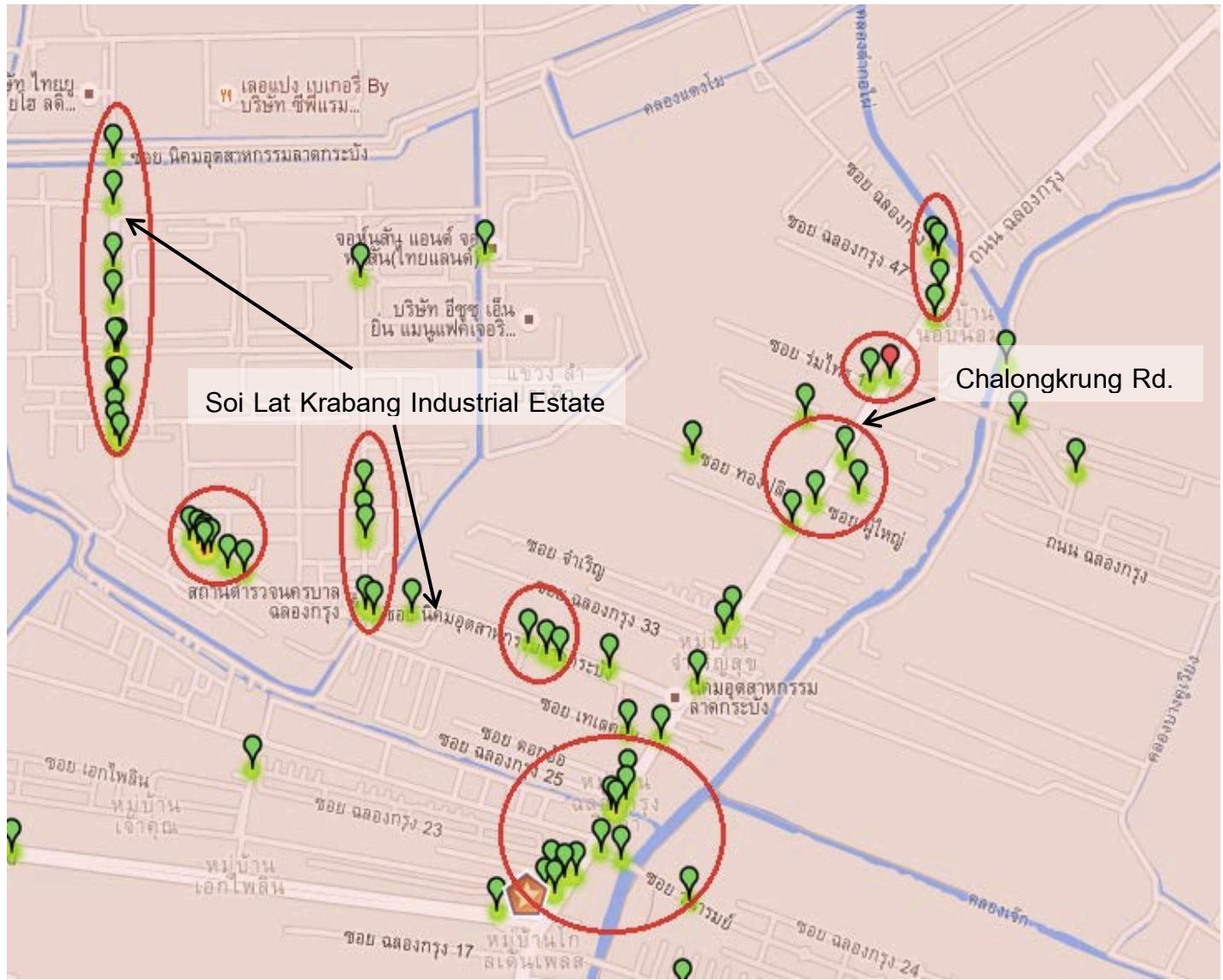
Picture 2: Point of Crash Lardkrabang District (Specific Areas).



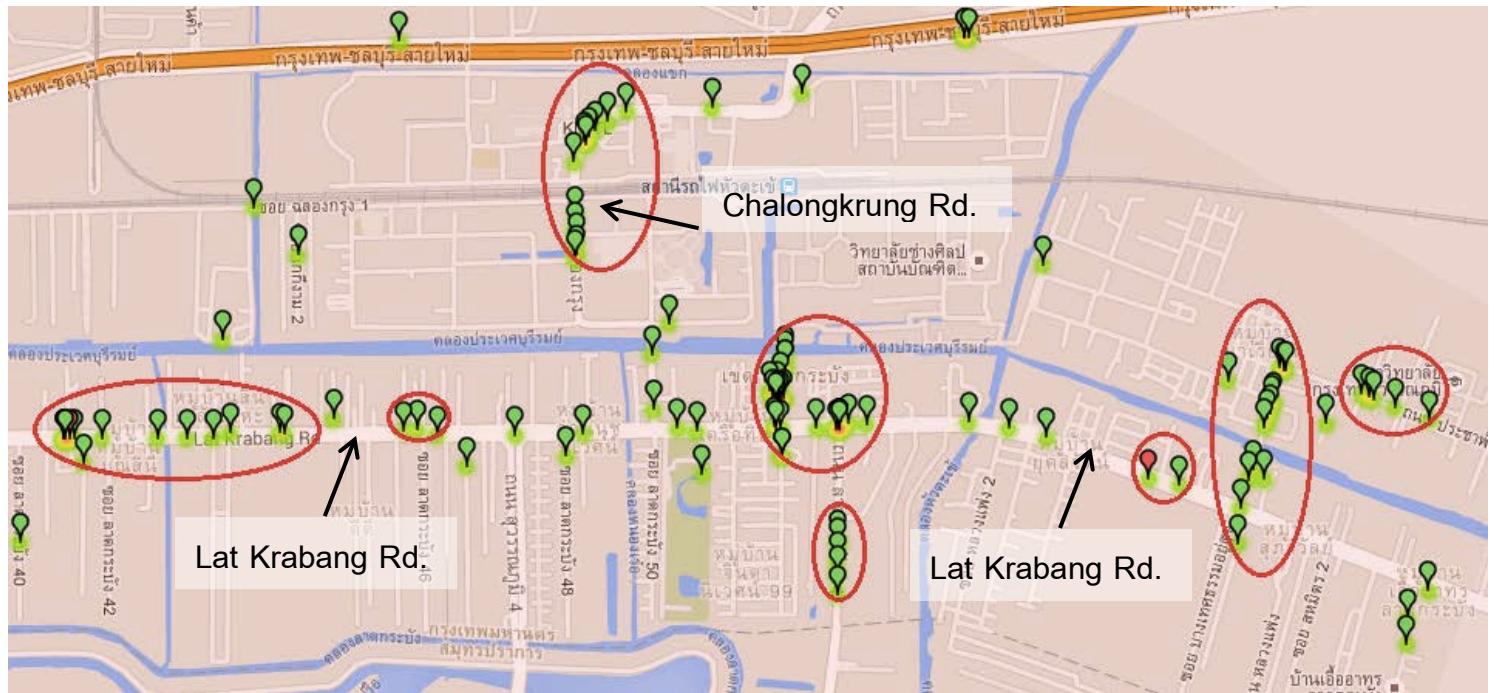
Picture 3: Point of Crash Lardkrabang District (Specific Areas).



Picture 4: Point of Crash Lardkrabang District (Specific Areas).

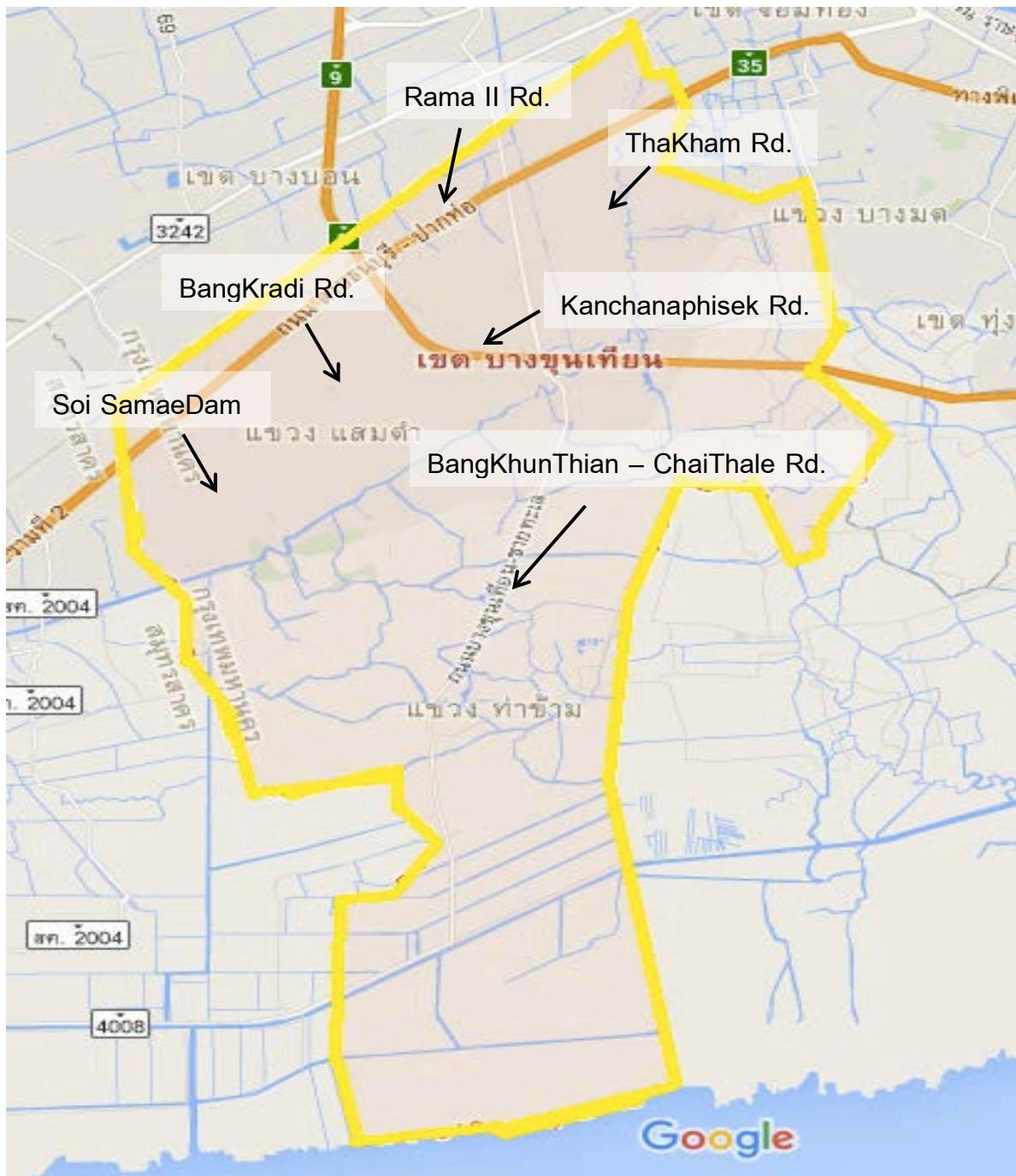


Picture 5: Point of Crash Lardkrabang District (Specific Areas).



2) BangKhuntien

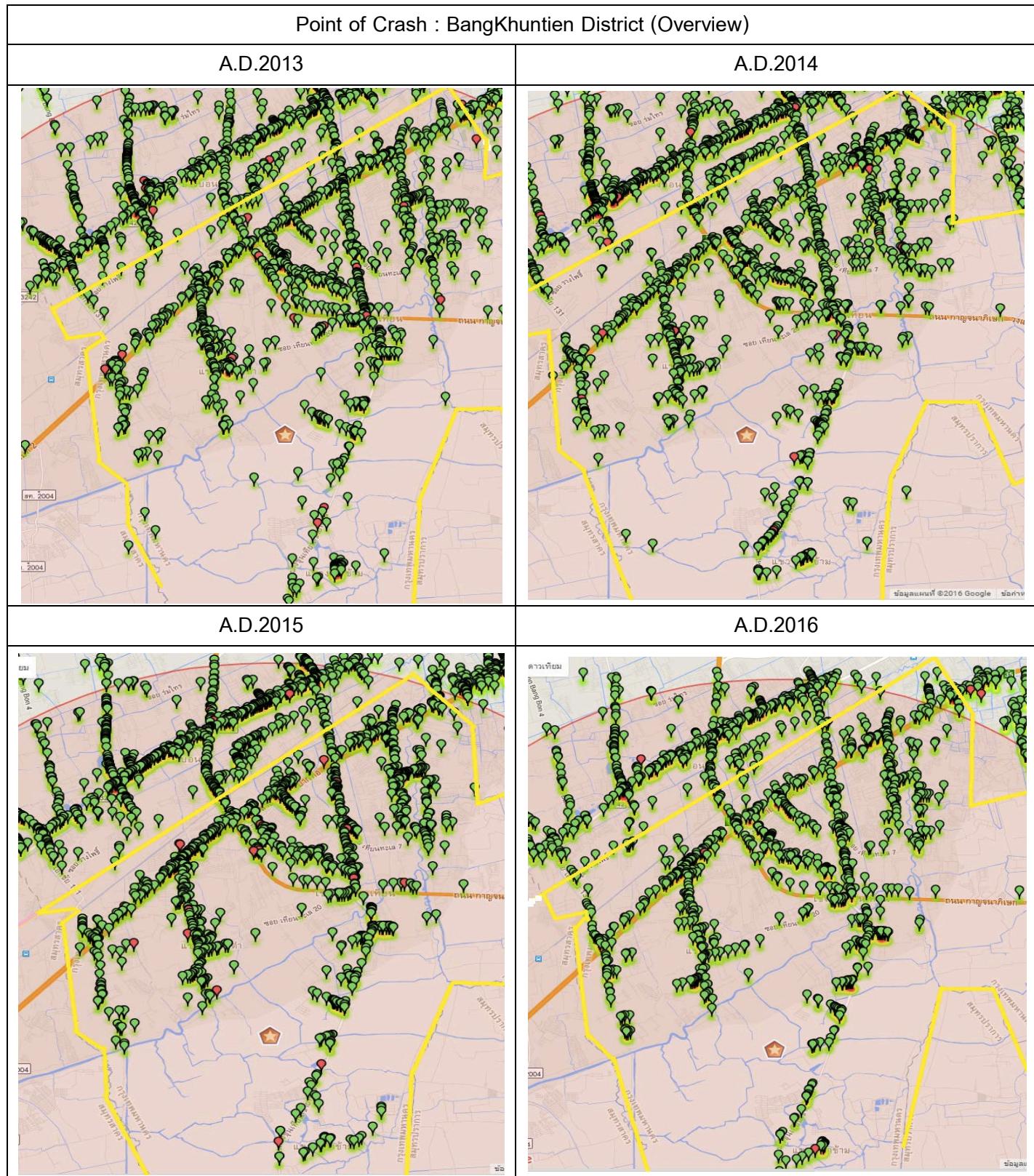
Picture 6: The Main Road of Bangkhuntien District.



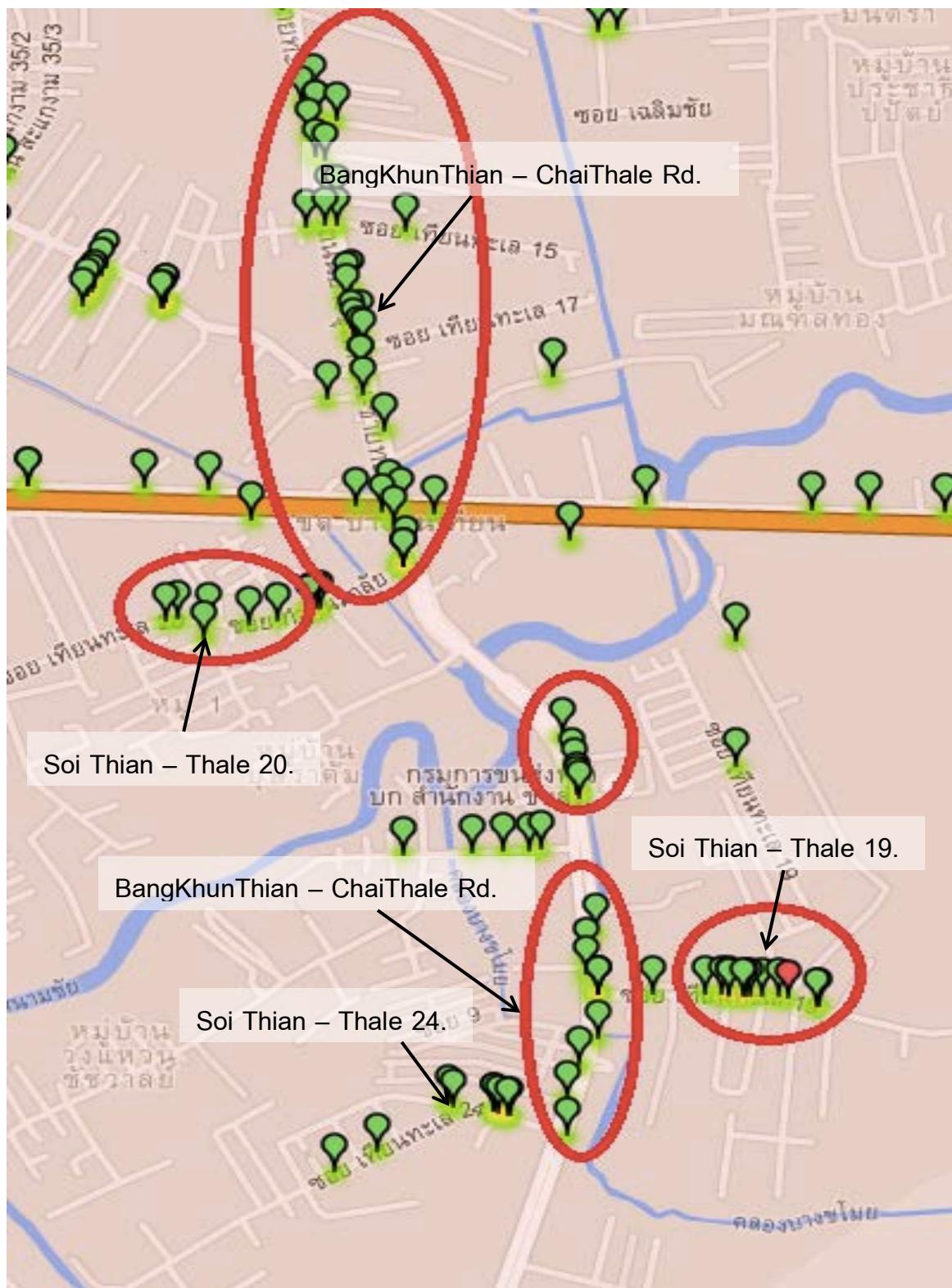
BangKhuntien district has a main road below.

- 1) Rama II Rd. / 2) ThaKham Rd. / 3) BangKradi Rd. / 4) Kanchanaphisek Rd. / 5) BangKhunThian – ChaiThale Rd.

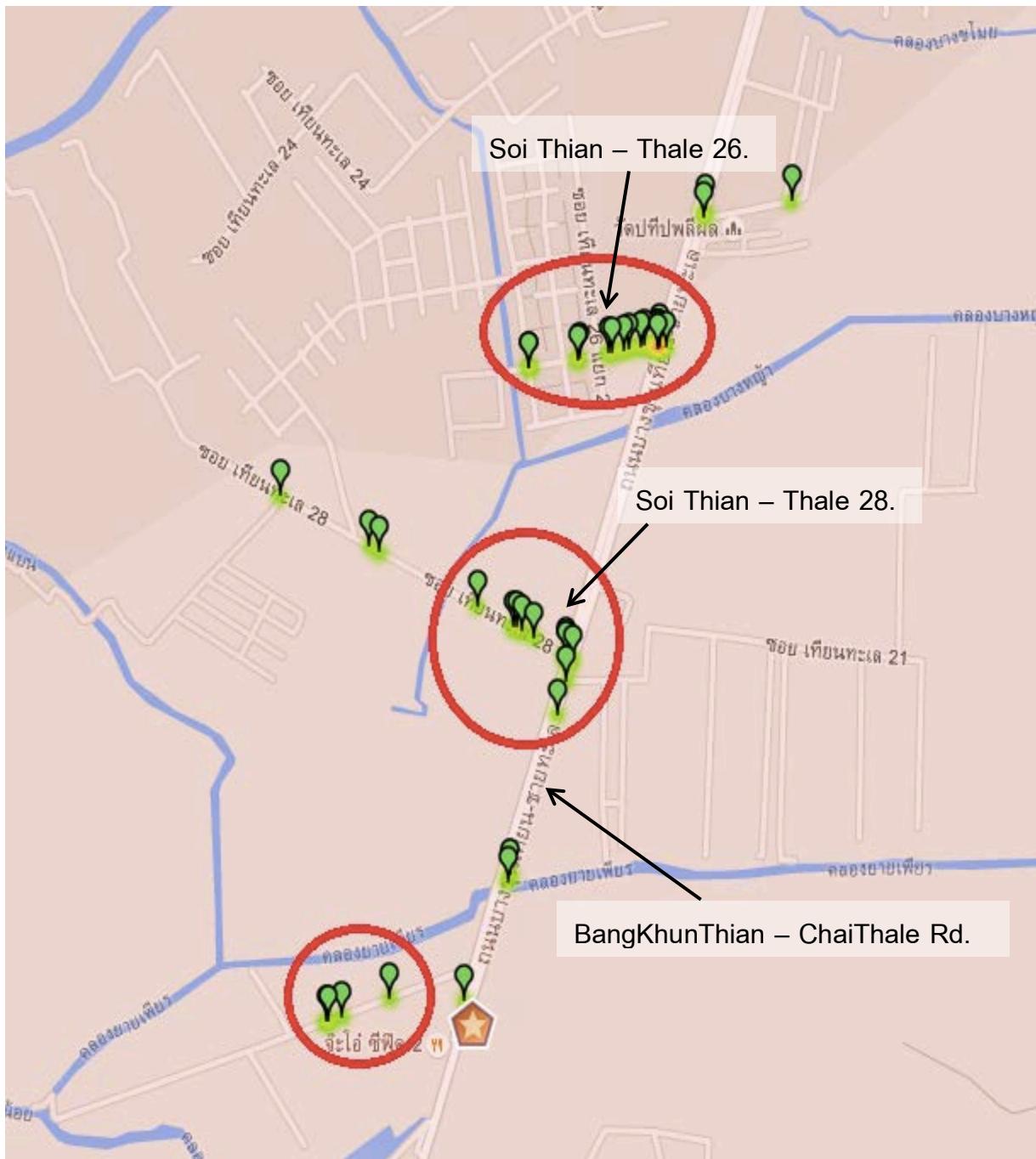
Table 4: Compared overview area of Bangkhuntien district between 2013-2016.



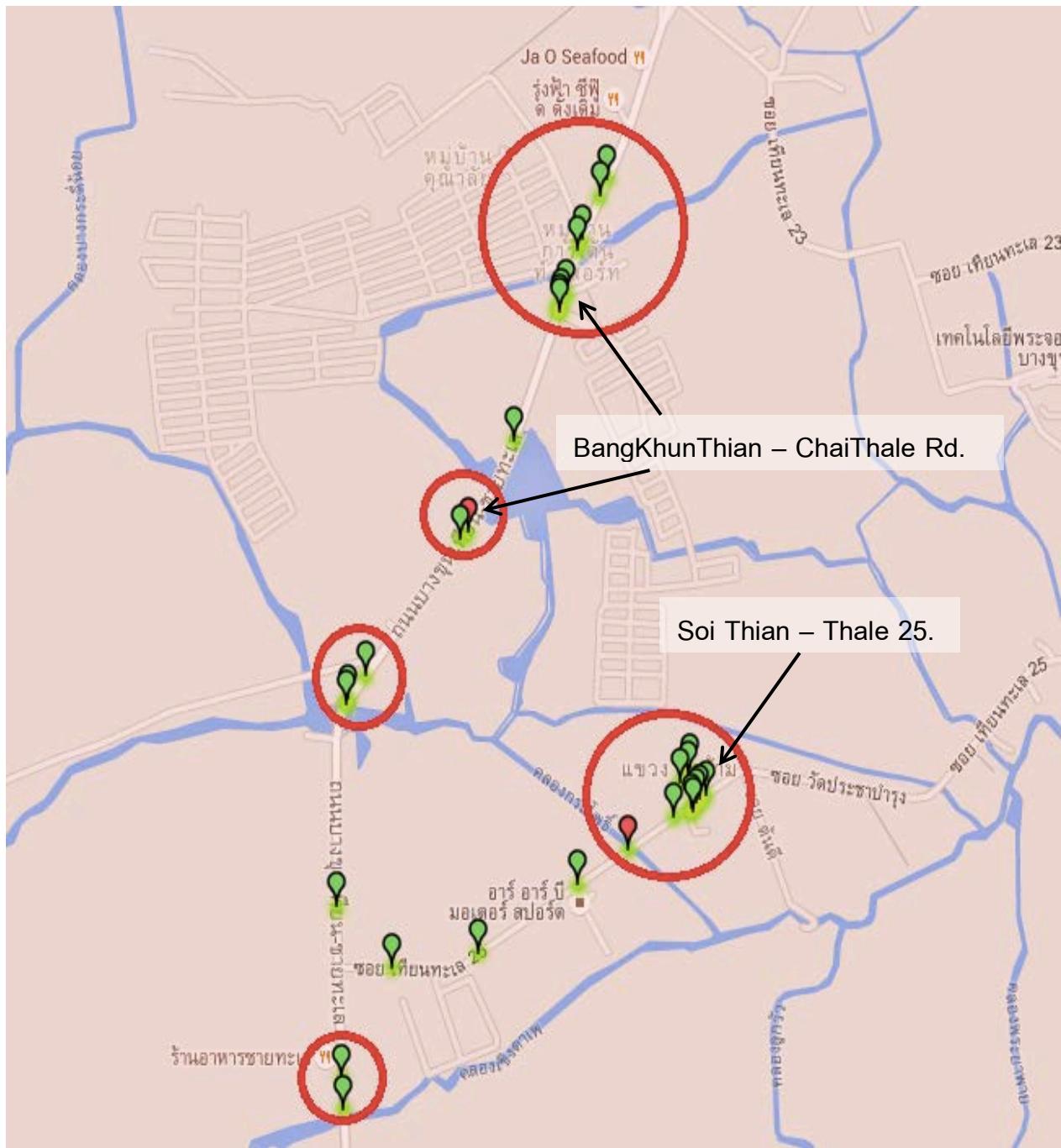
Picture 7: Point of Crash BangKhuntien District (Specific Areas).



Picture 8: Point of Crash BangKhuntien District (Specific Areas).



Picture 9: Point of Crash BangKhuntien District (Specific Areas).



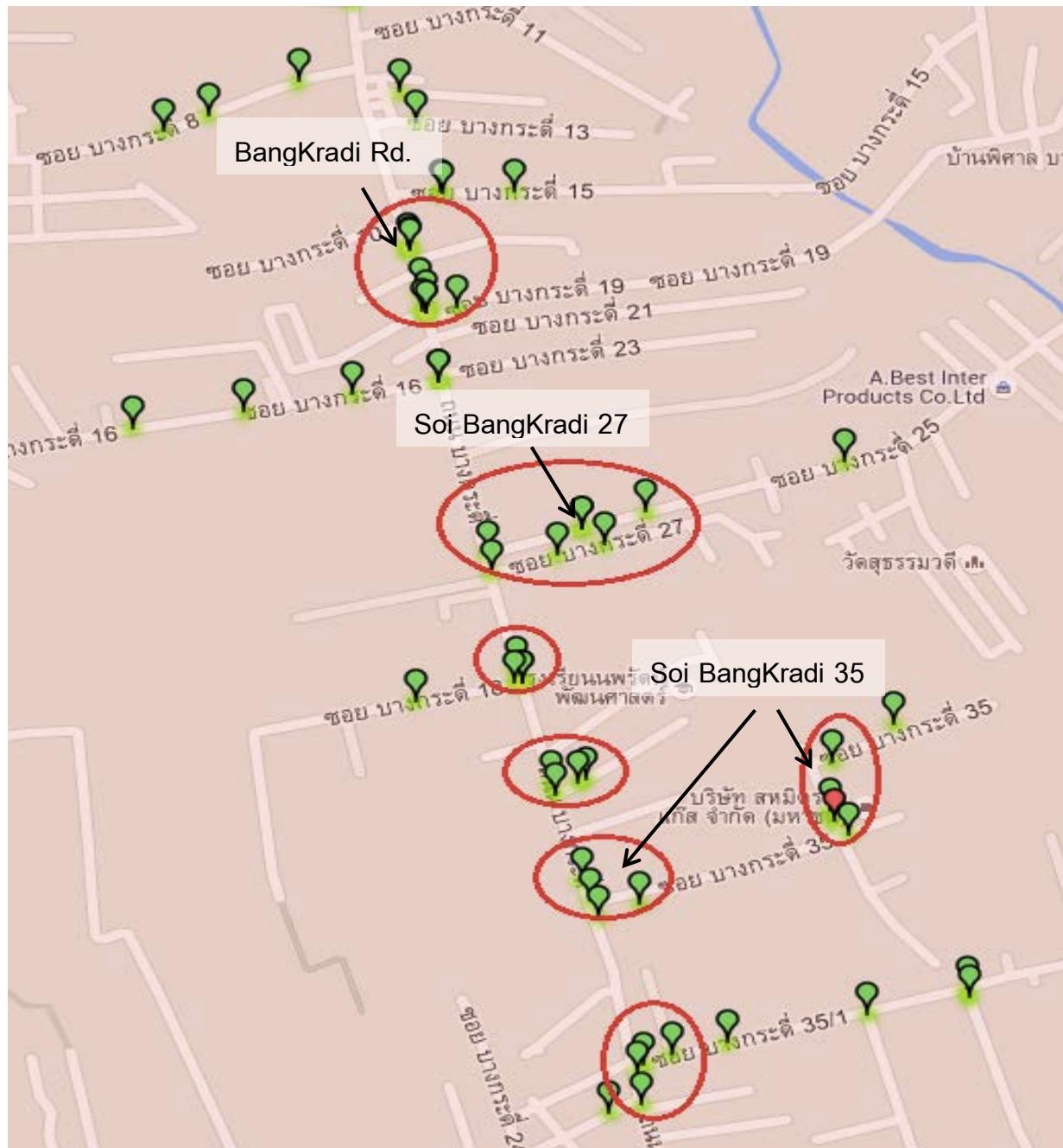
Picture 10: Point of Crash BangKhuntien District (Specific Areas).



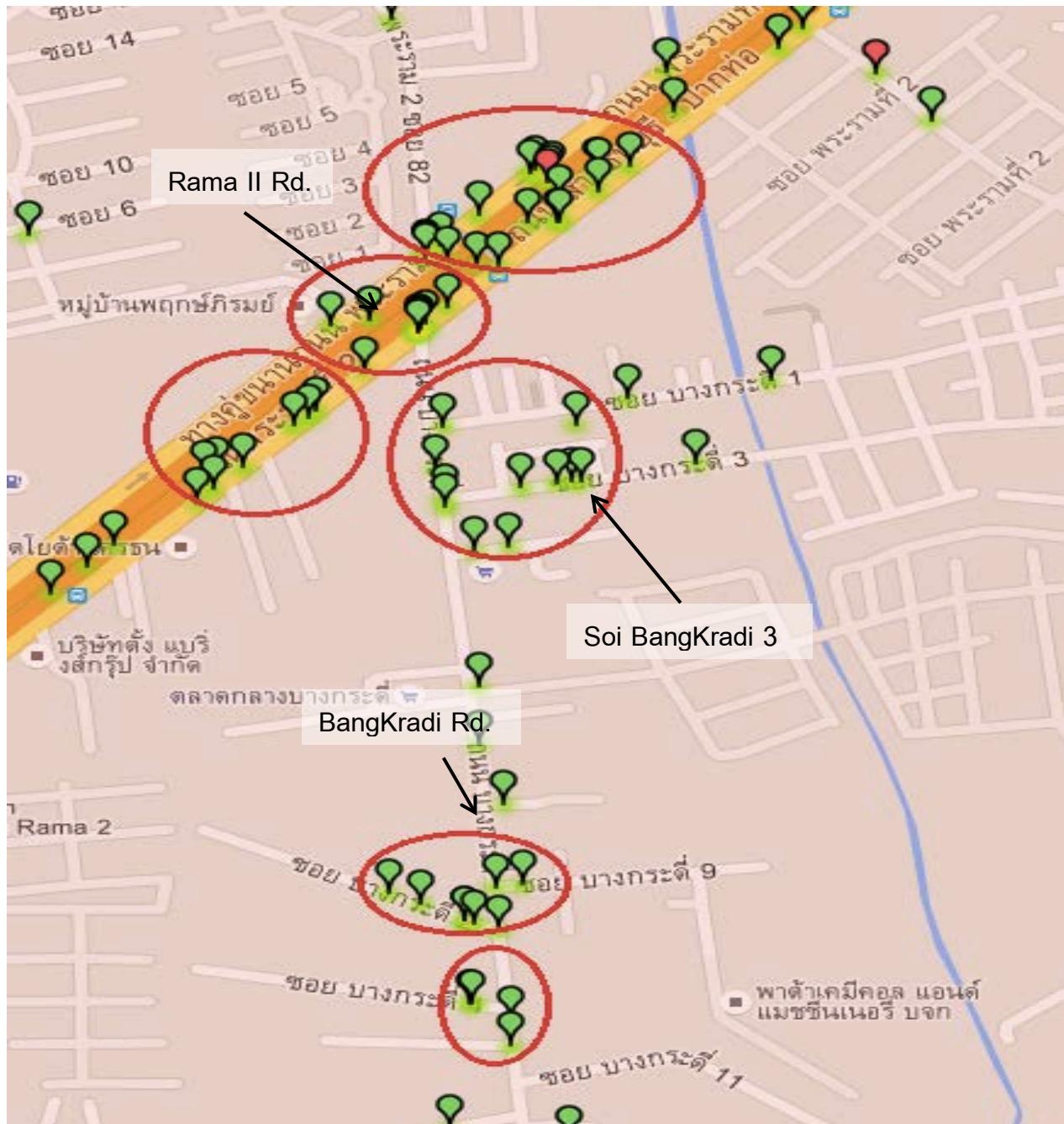
Picture 11: Point of Crash BangKhuntien District (Specific Areas).



Picture 12: Point of Crash BangKhuntien District (Specific Areas).

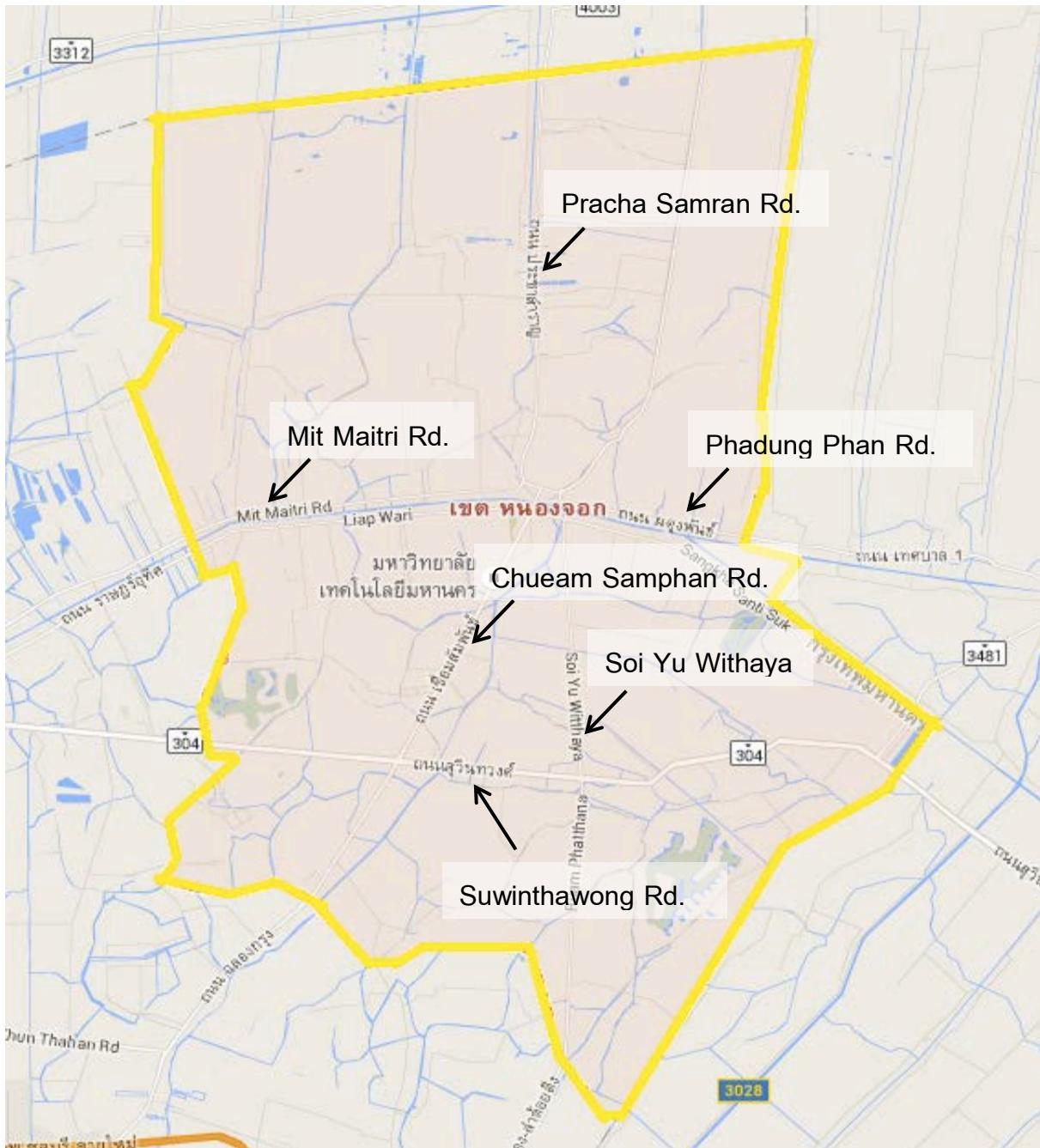


Picture 13: Point of Crash BangKhuntien District (Specific Areas).



3) Nongjok

Picture 14: The Main Road of Nongjok District.



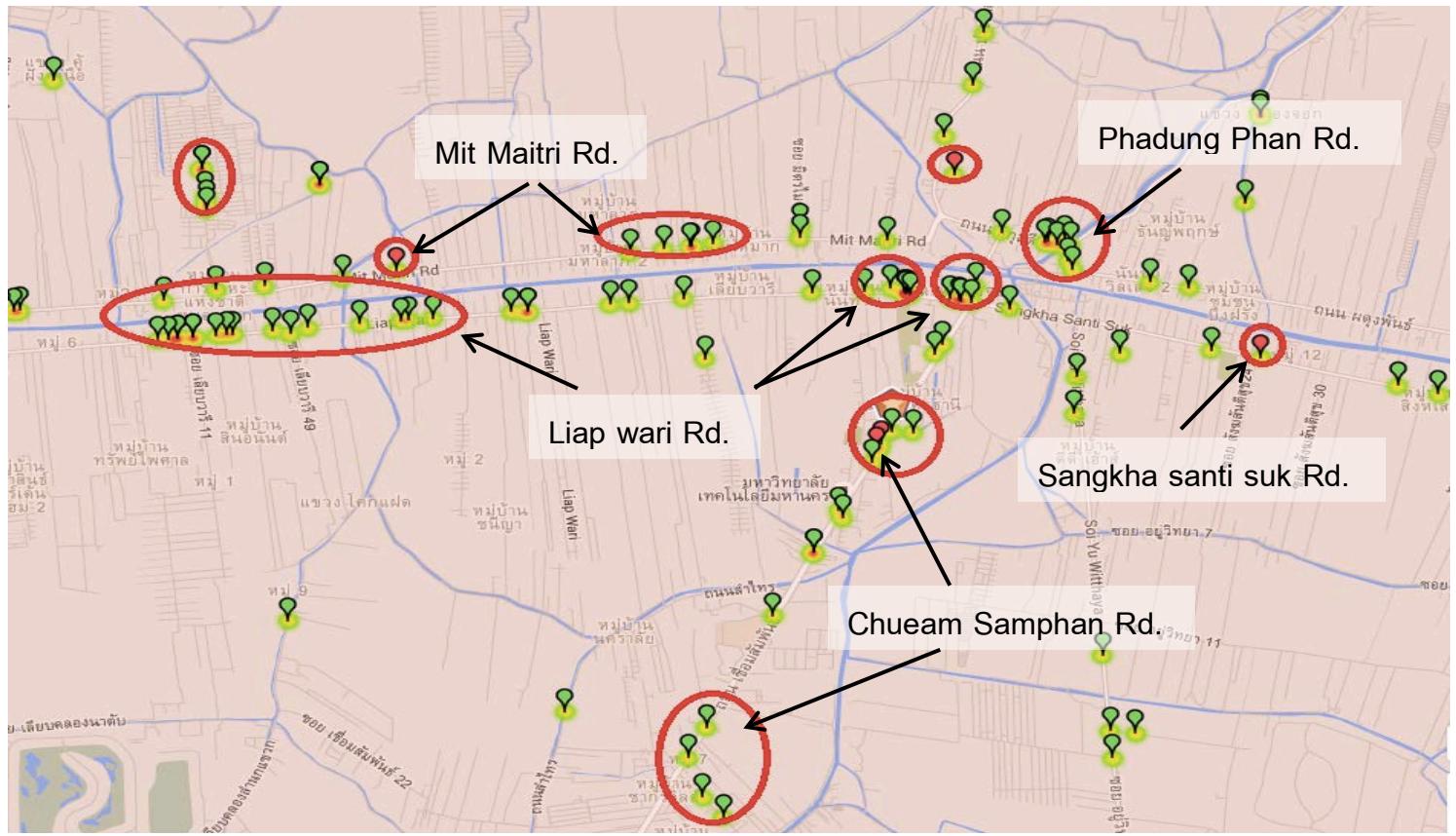
Nongjok district has a main road below.

- 1) Pracha Samran Rd. / 2) Mit Maitri Rd. / 3) Phadung Phan Rd. / 4) Chueam Samphan Rd. / 5) Suwinthawong Rd.

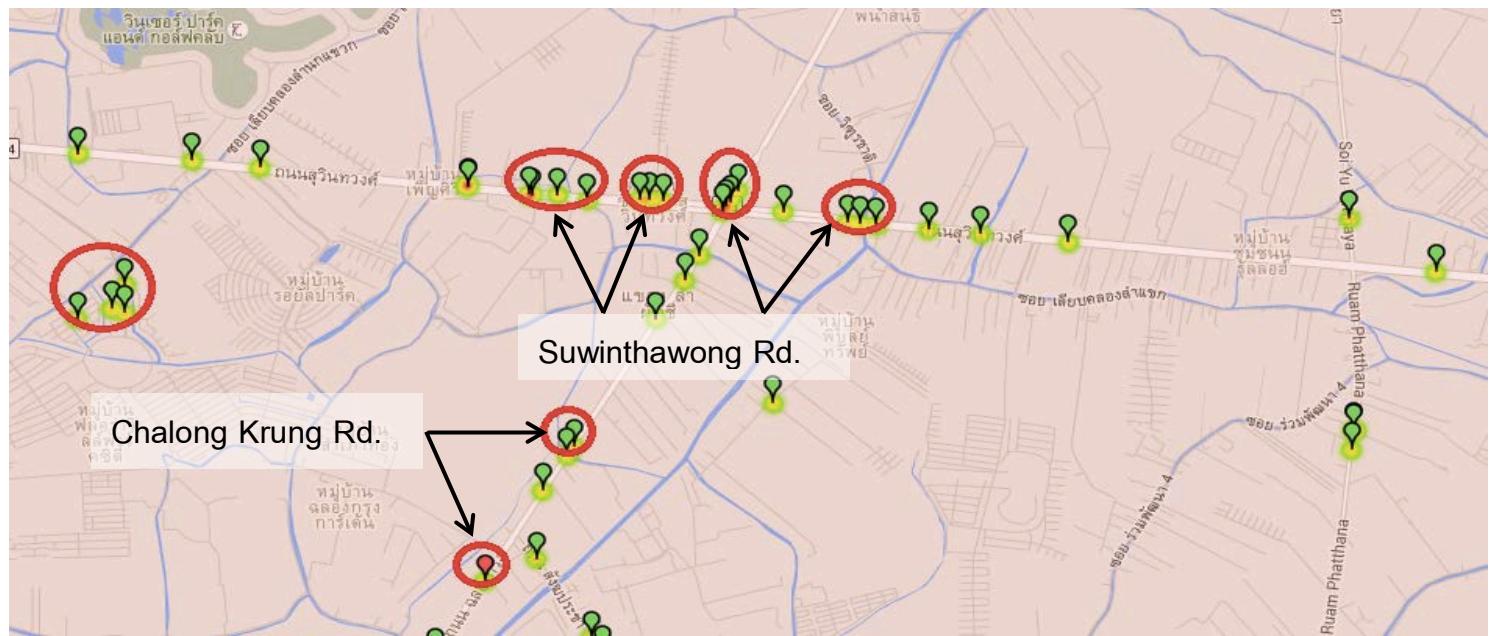
Table 5: Compared overview area of Nongjok district between 2013-2016.



Picture 14: Point of Crash Nongjok District (Specific Areas).



Picture 15: Point of Crash Nongjok District (Specific Areas).



4) Prawet

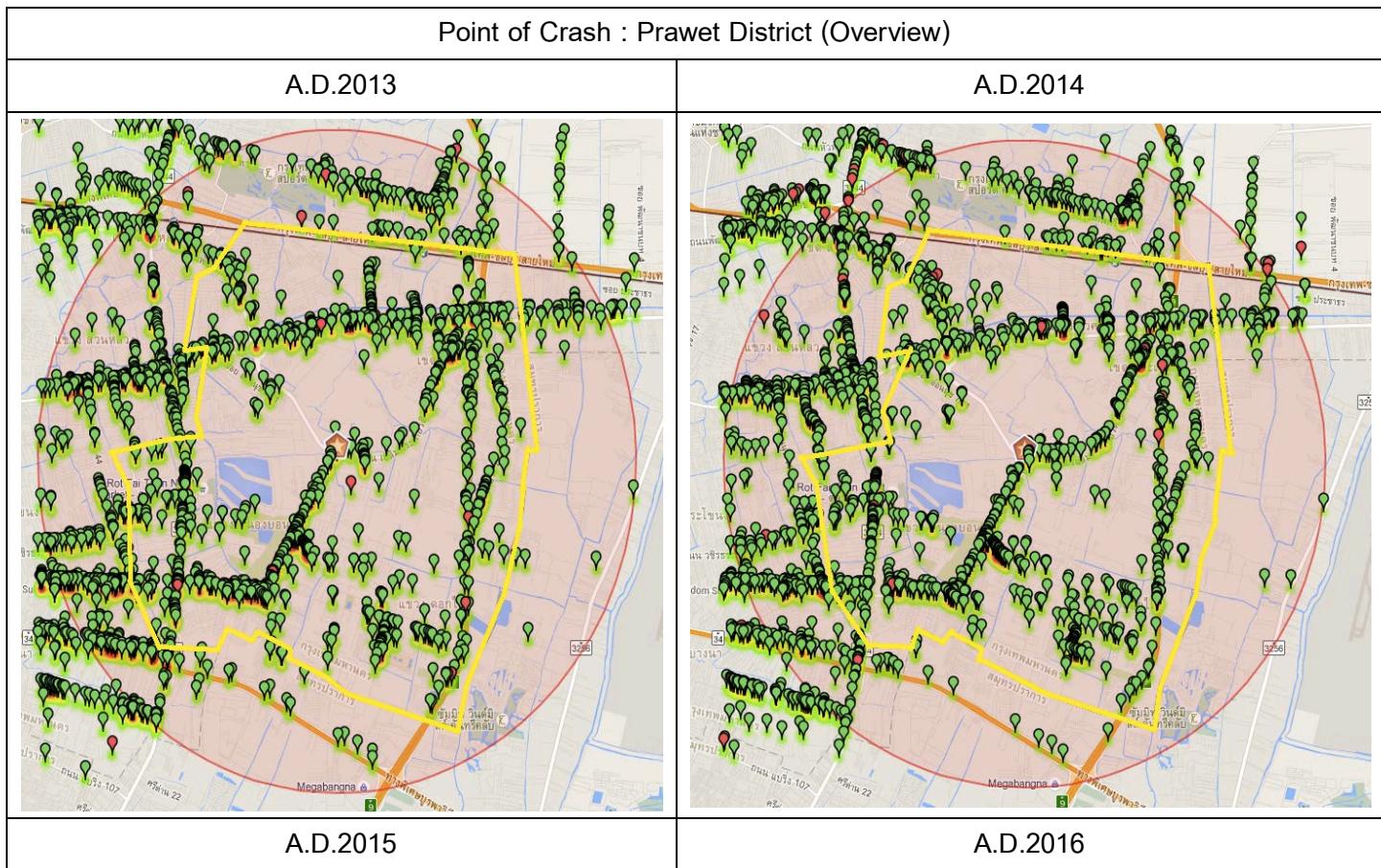
Picture 16: The Main Road of Prawet District.

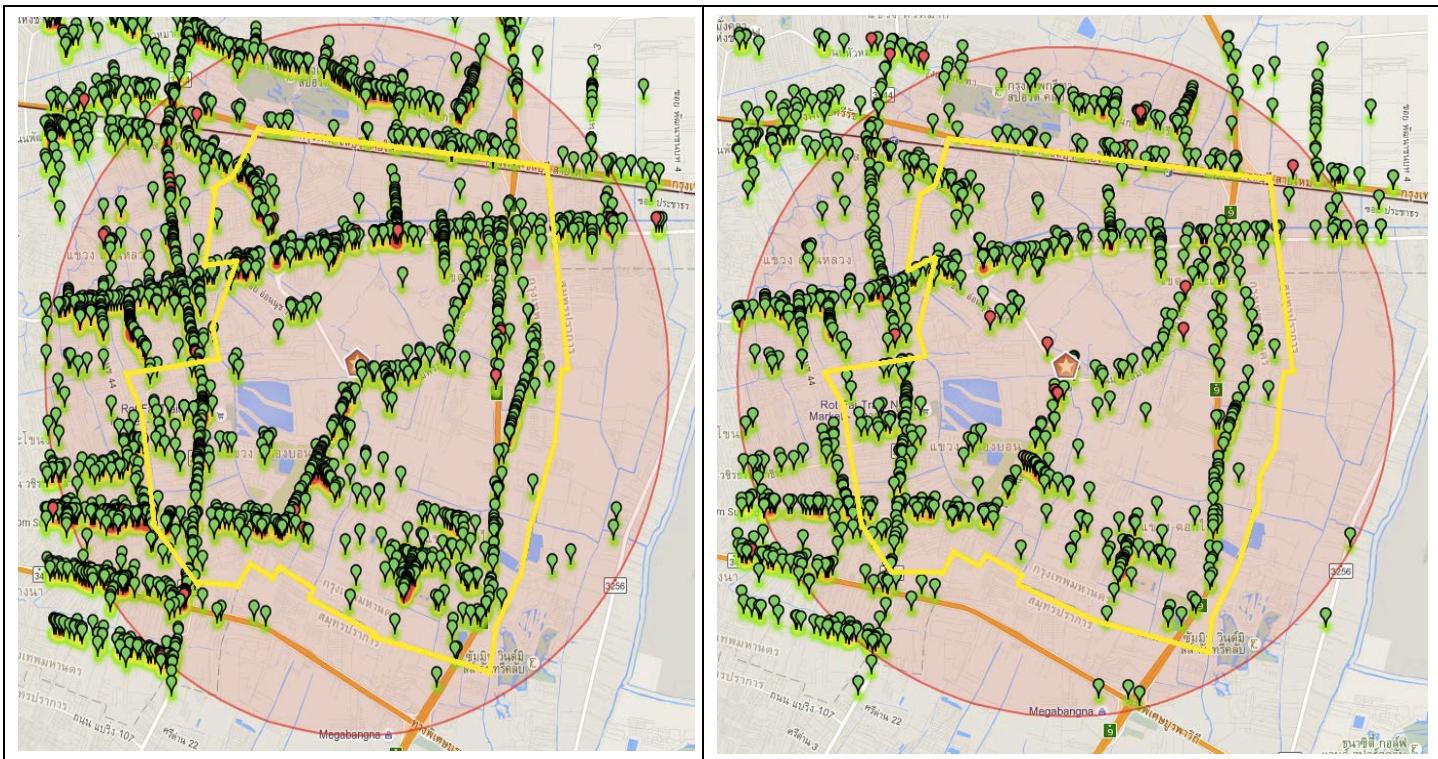


Prawet district has a main road below.

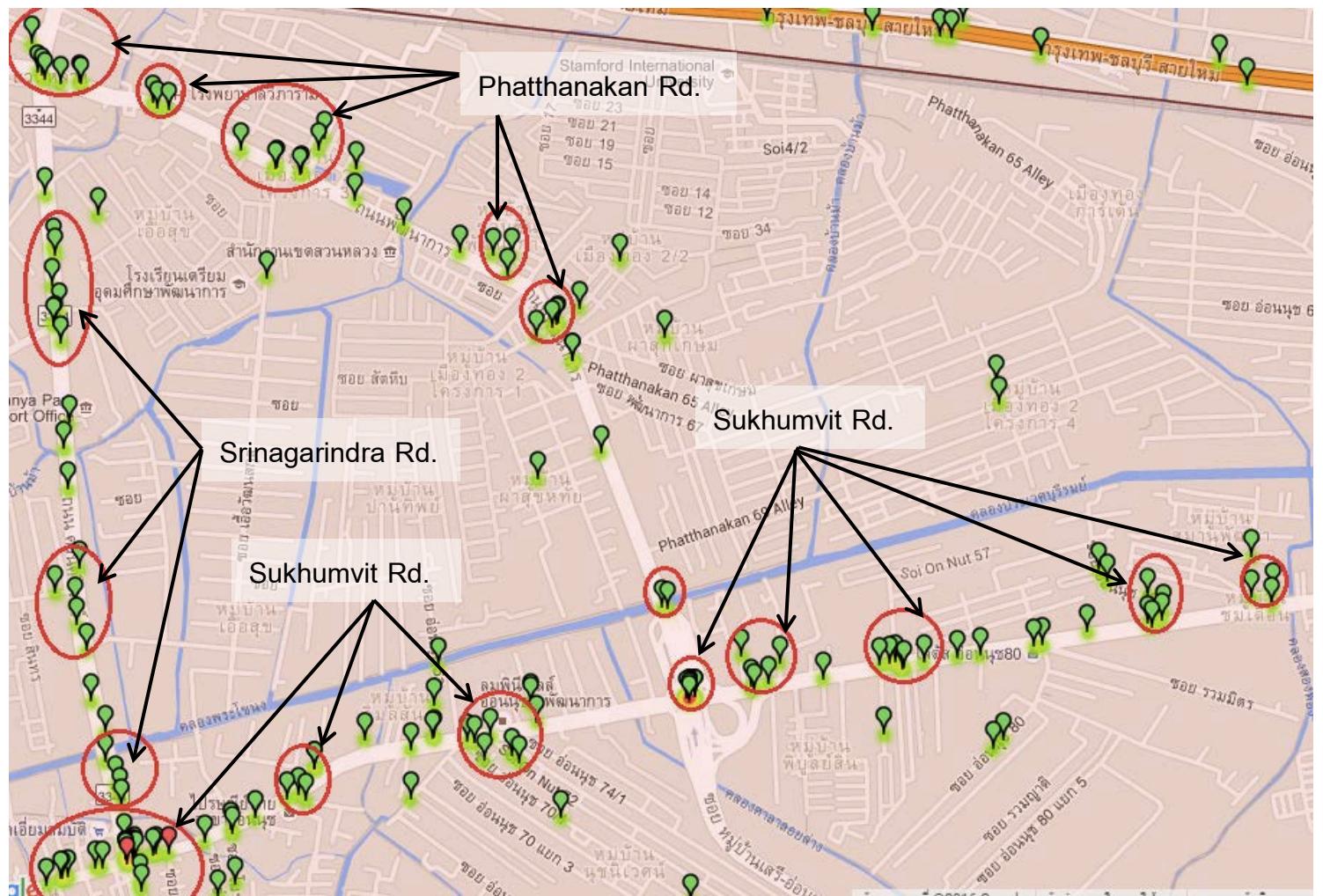
- 1) Latkrabang Rd. / 2) Kanchanaphisek Rd. / 3) Srinagarindra Rd. / 4) Sukhaphiban2 Rd. /
- 5) ChaloemPhrakiatRatchhakanthi9 Rd.

Table 6: Compared overview area of Prawet district between 2013-2016.

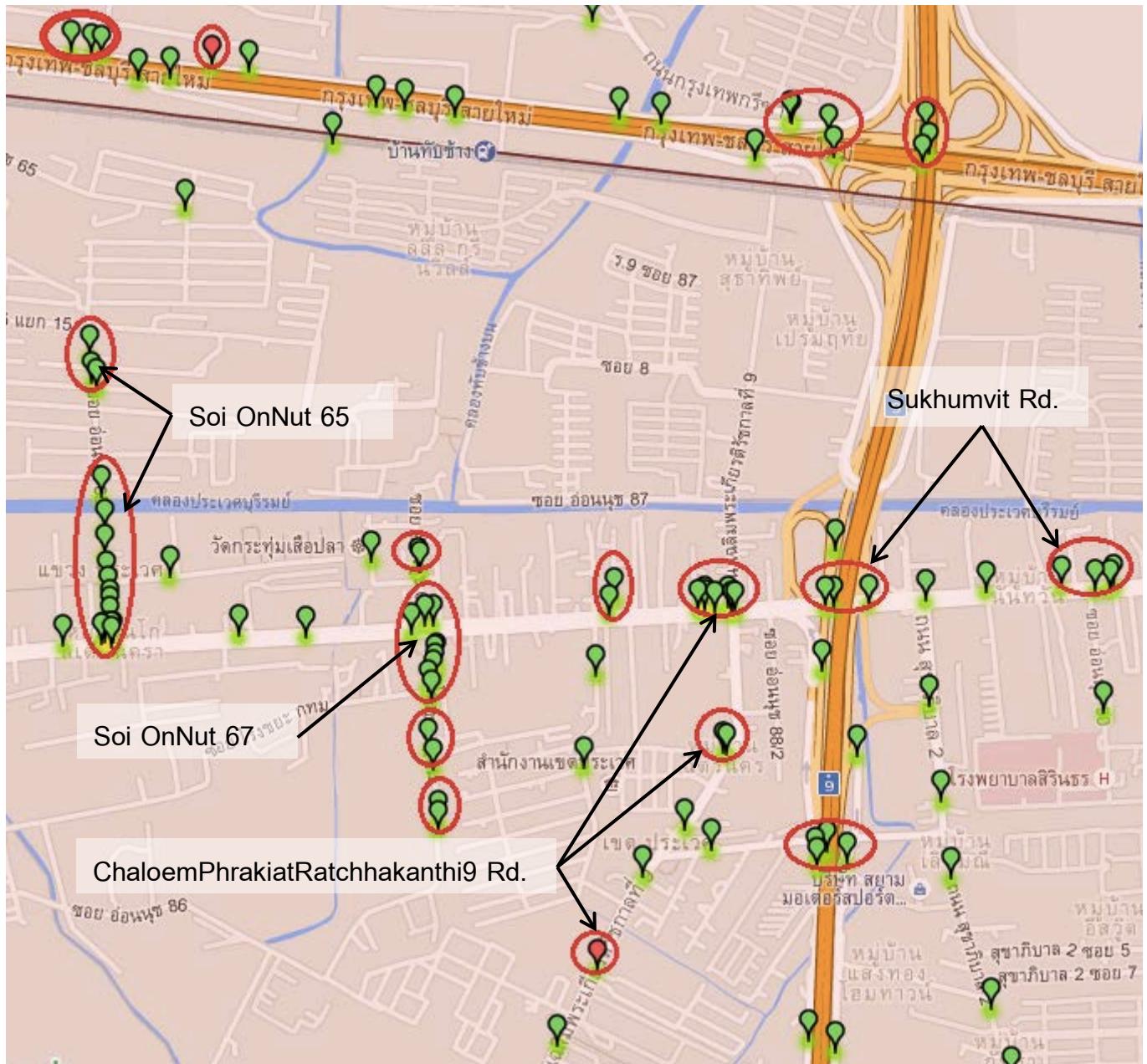




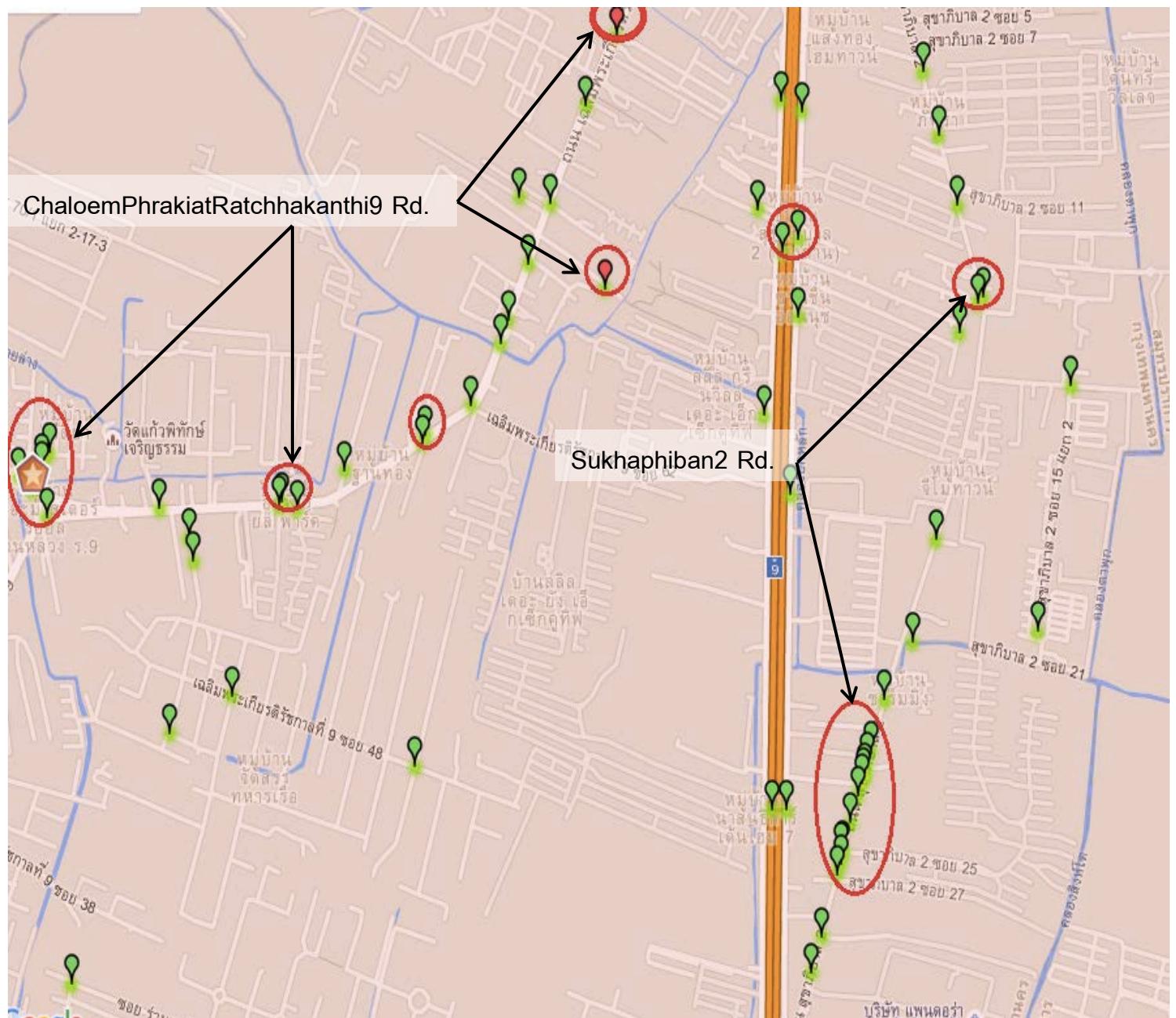
Picture 17: Point of Crash Prawet District (Specific Areas).



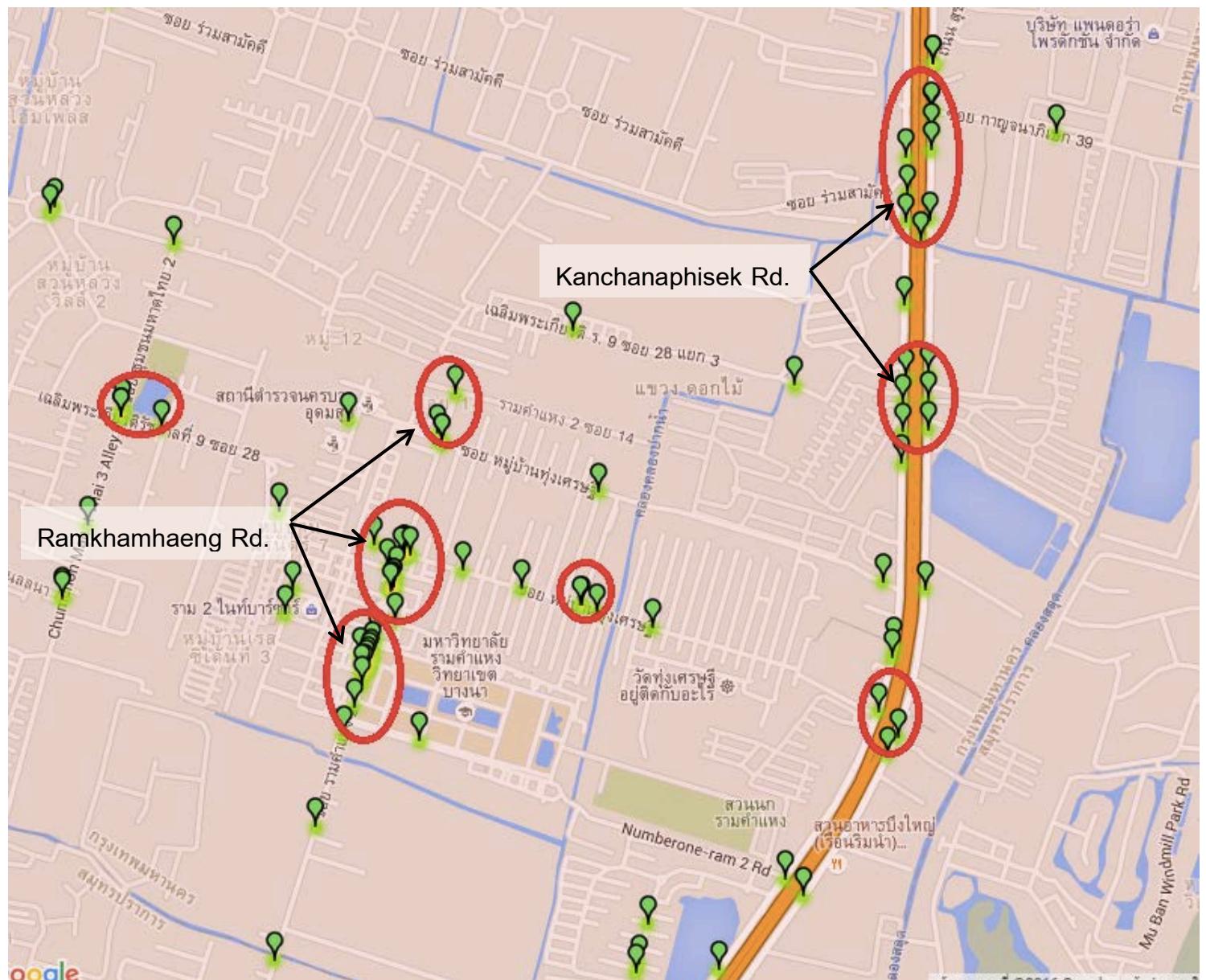
Picture 18: Point of Crash Prawet District (Specific Areas).



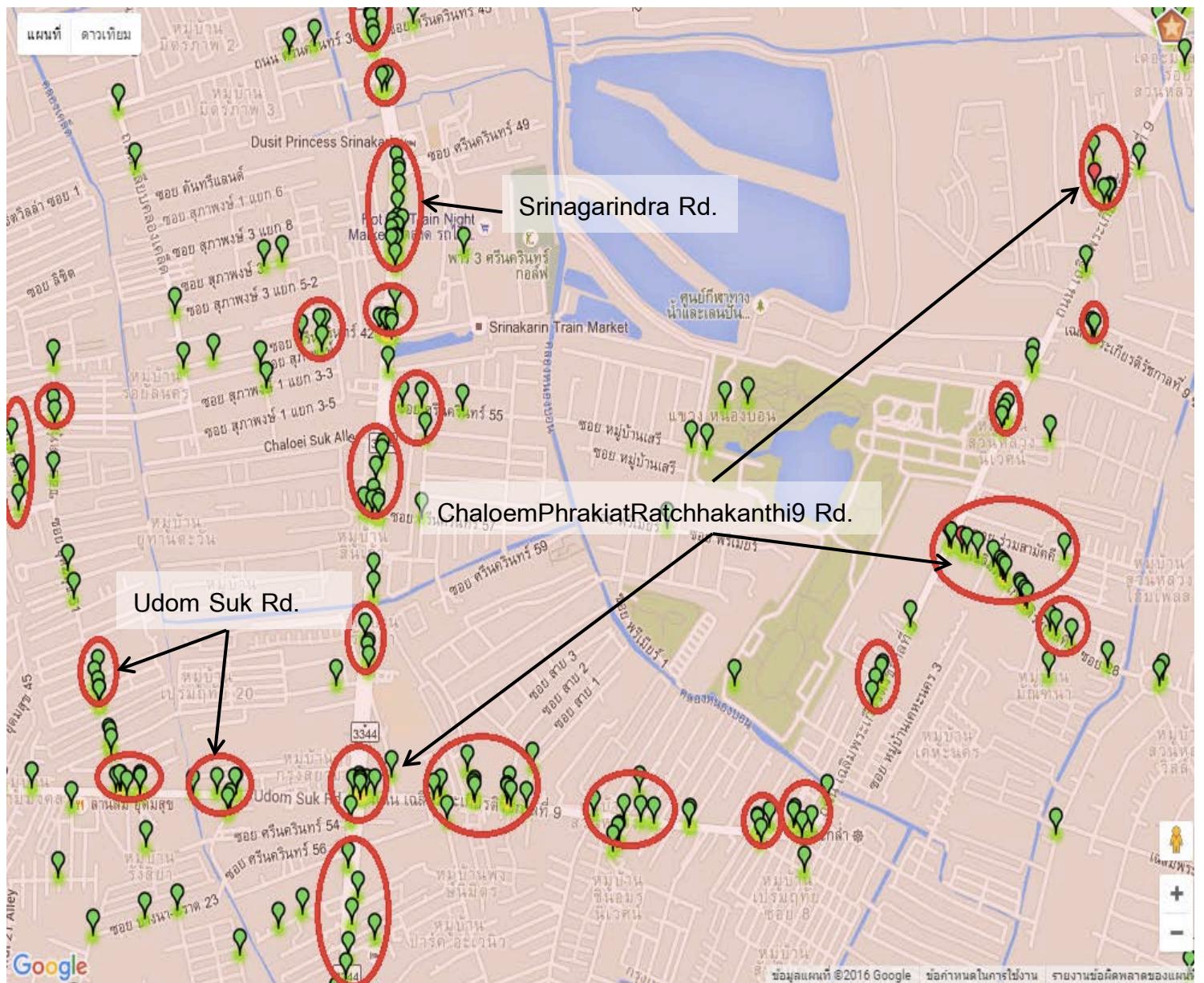
Picture 19: Point of Crash Prawet District (Specific Areas).



Picture 20: Point of Crash Prawet District (Specific Areas).

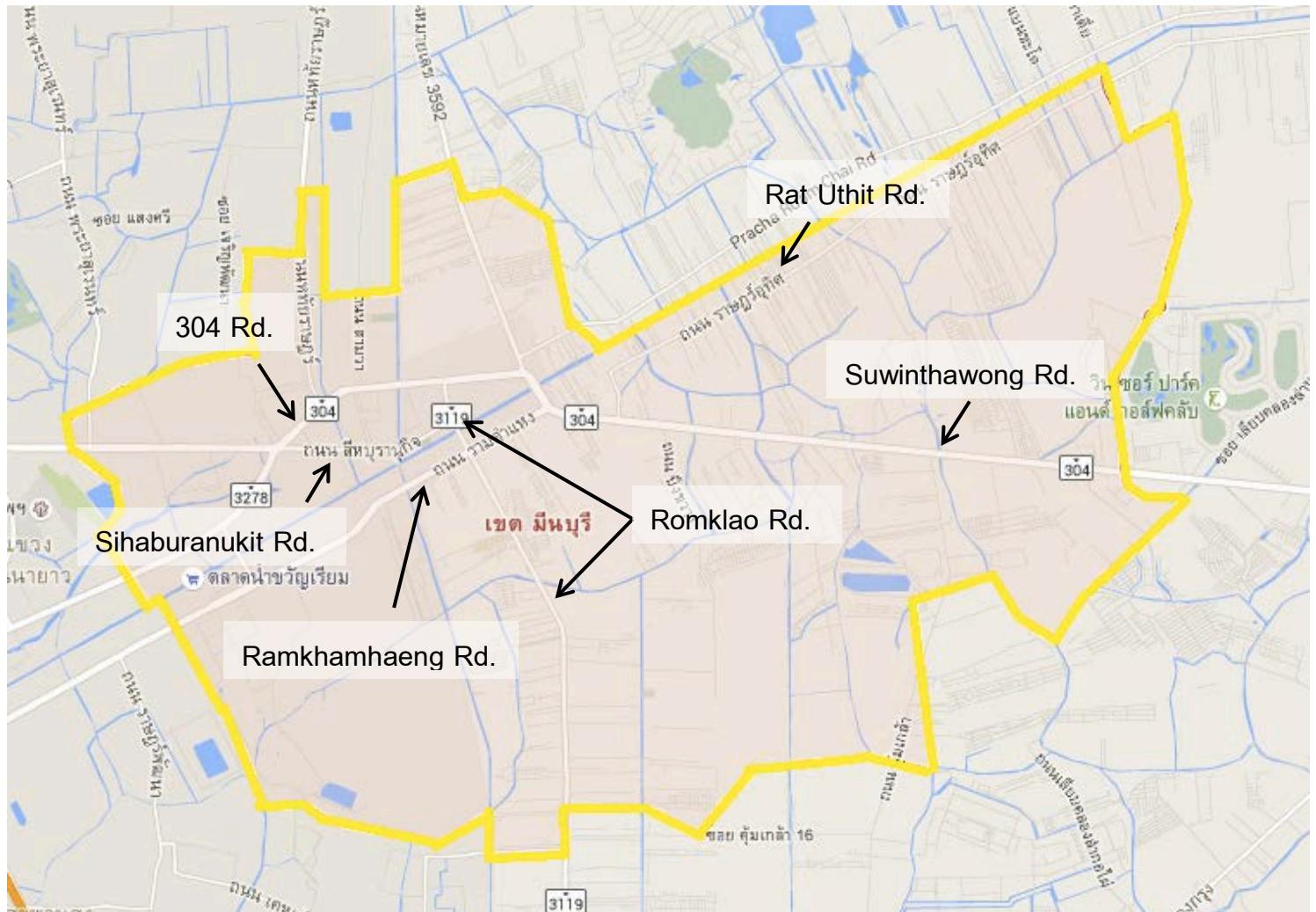


Picture 21: Point of Crash Prawet District (Specific Areas).



5) Meanburi

Picture 22: The Main Road of Meanburi District.



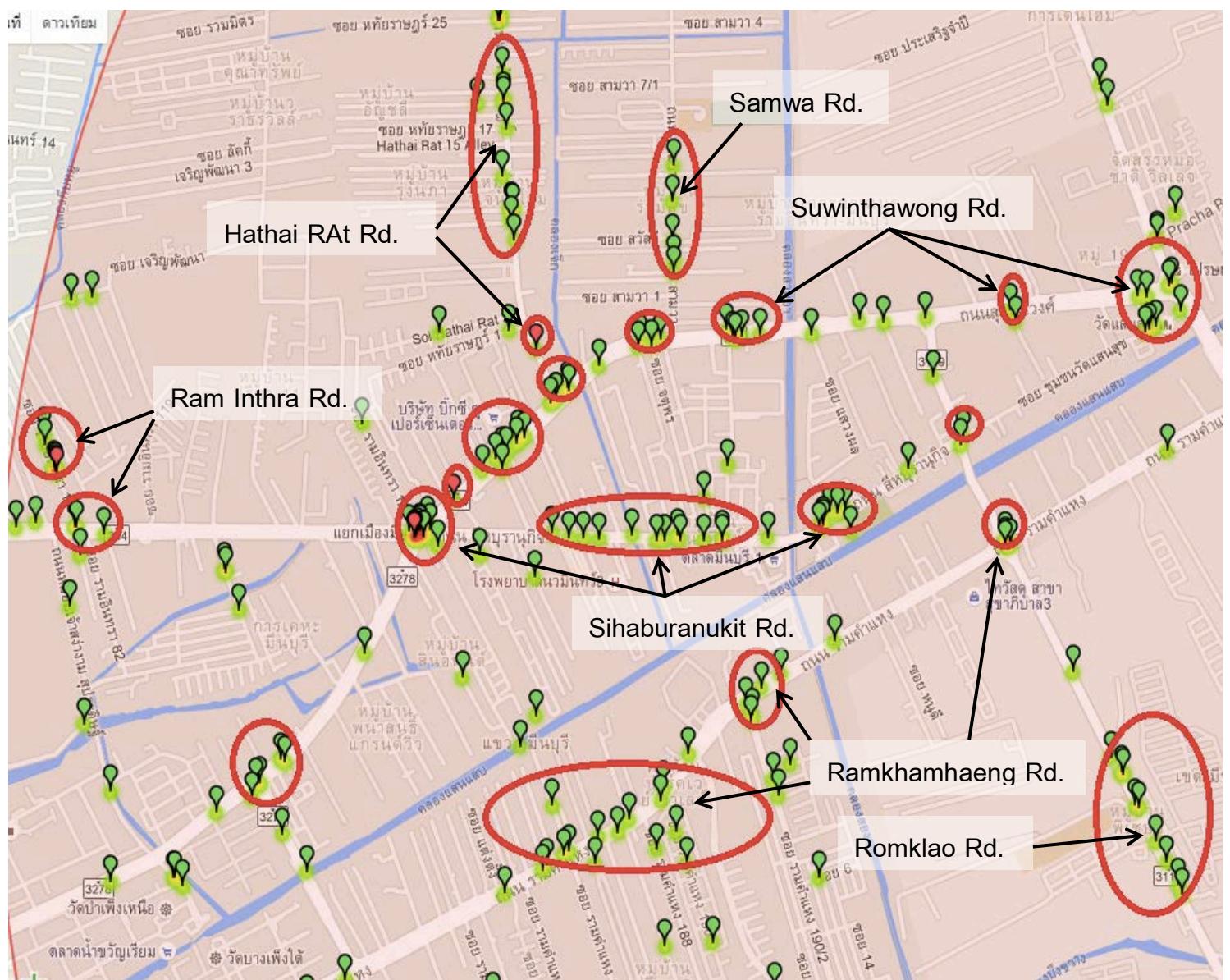
Meanburi district has a main road below.

- 1) Rat Uthit Rd. / 2) Suwinthawong Rd./ 3) 304 Rd. / 4) Sihaburanukit Rd./ 5) Romklao Rd. /
- 6) Ramkhamhaeng Rd.

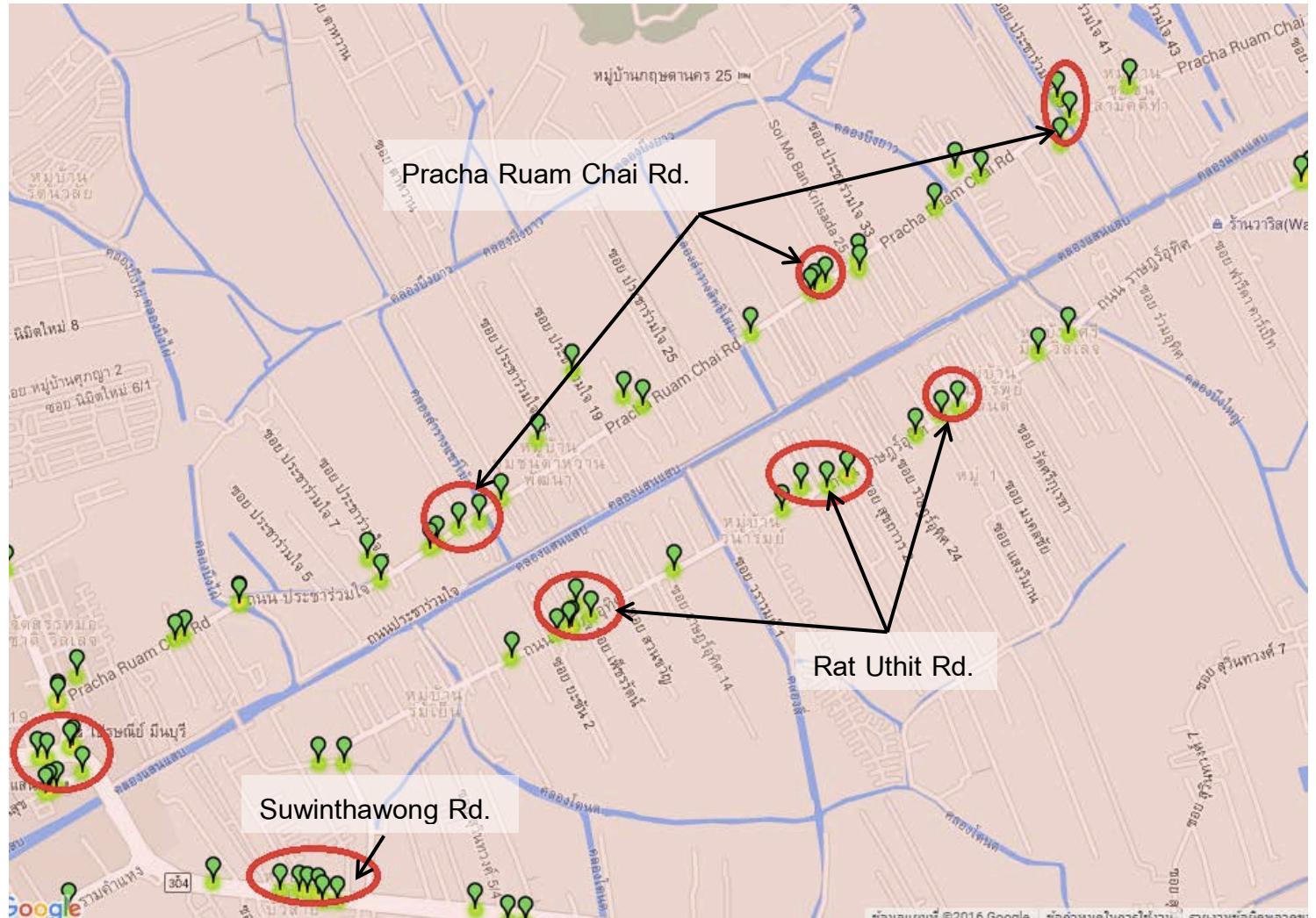
Table 7: Compared overview area of Meanburi district between 2013-2016.



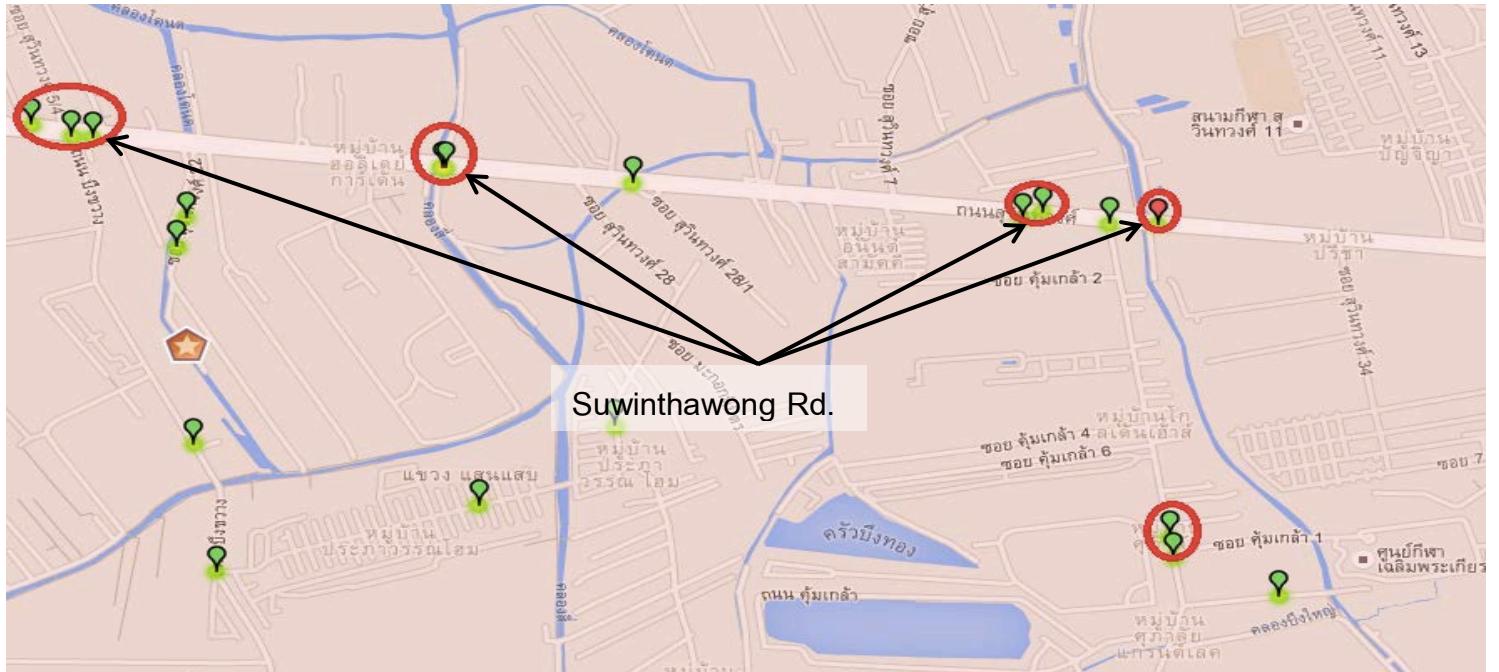
Picture 23: Point of Crash Meanburi District (Specific Areas).



Picture 24: Point of Crash Meanburi District (Specific Areas).



Picture 25: Point of Crash Meanburi District (Specific Areas).



Picture 20 : Point of Crash Meanburi District (Specific Areas).



6) Talingchan

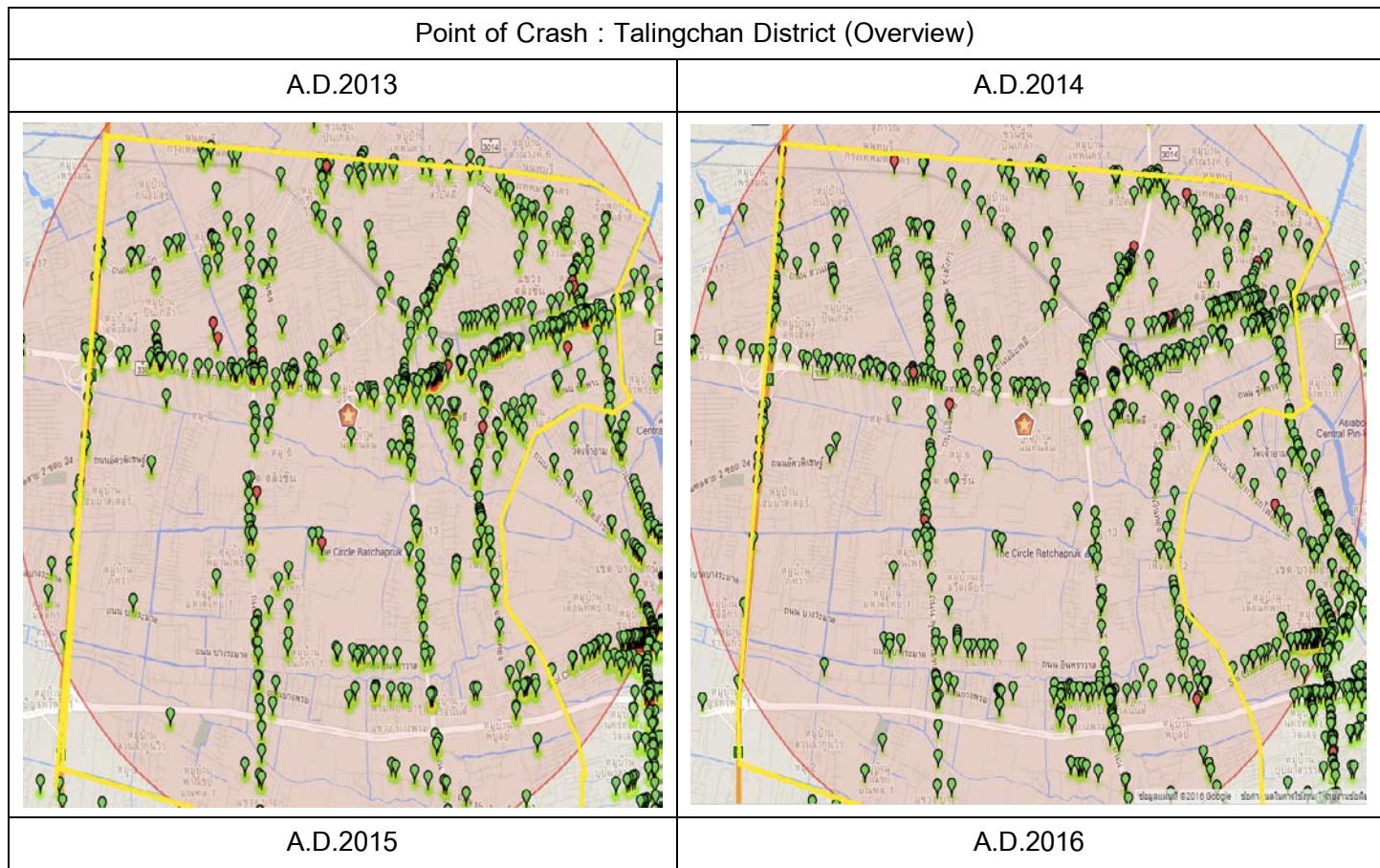
Picture 26: The Main Road of Talingchan District.



Talingchan district has a main road below.

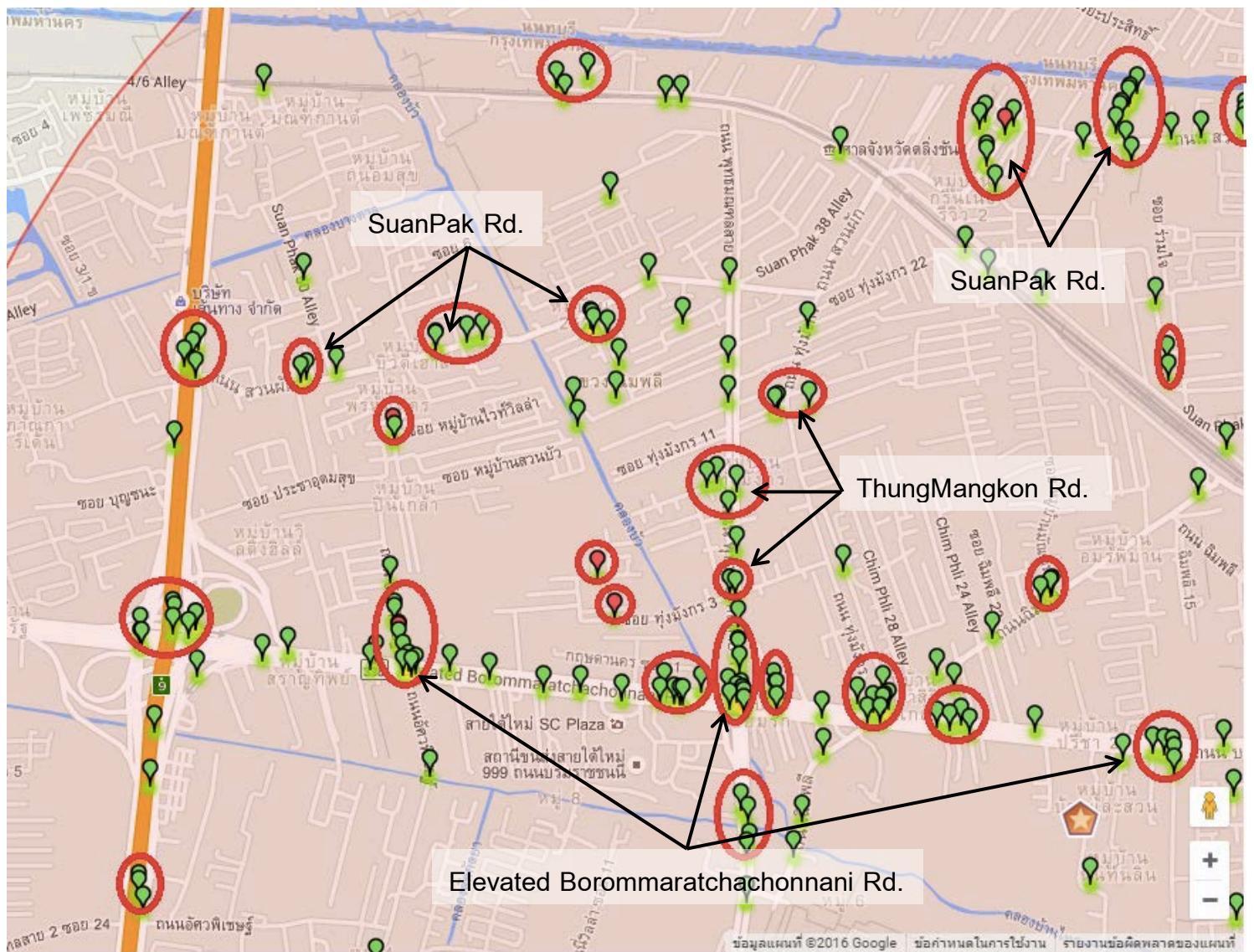
- 1) SuanPak Rd. / 2) ThungMangkon Rd. / 3) Ratchaphruek Rd. / 4) Elevated Borommaratchachonnani Rd. / 5) Kaeo Ngoen Thong Rd. / 6) BangPhrom Rd.

Table 8: Compared overview area of Talingchan district between 2013-2016.

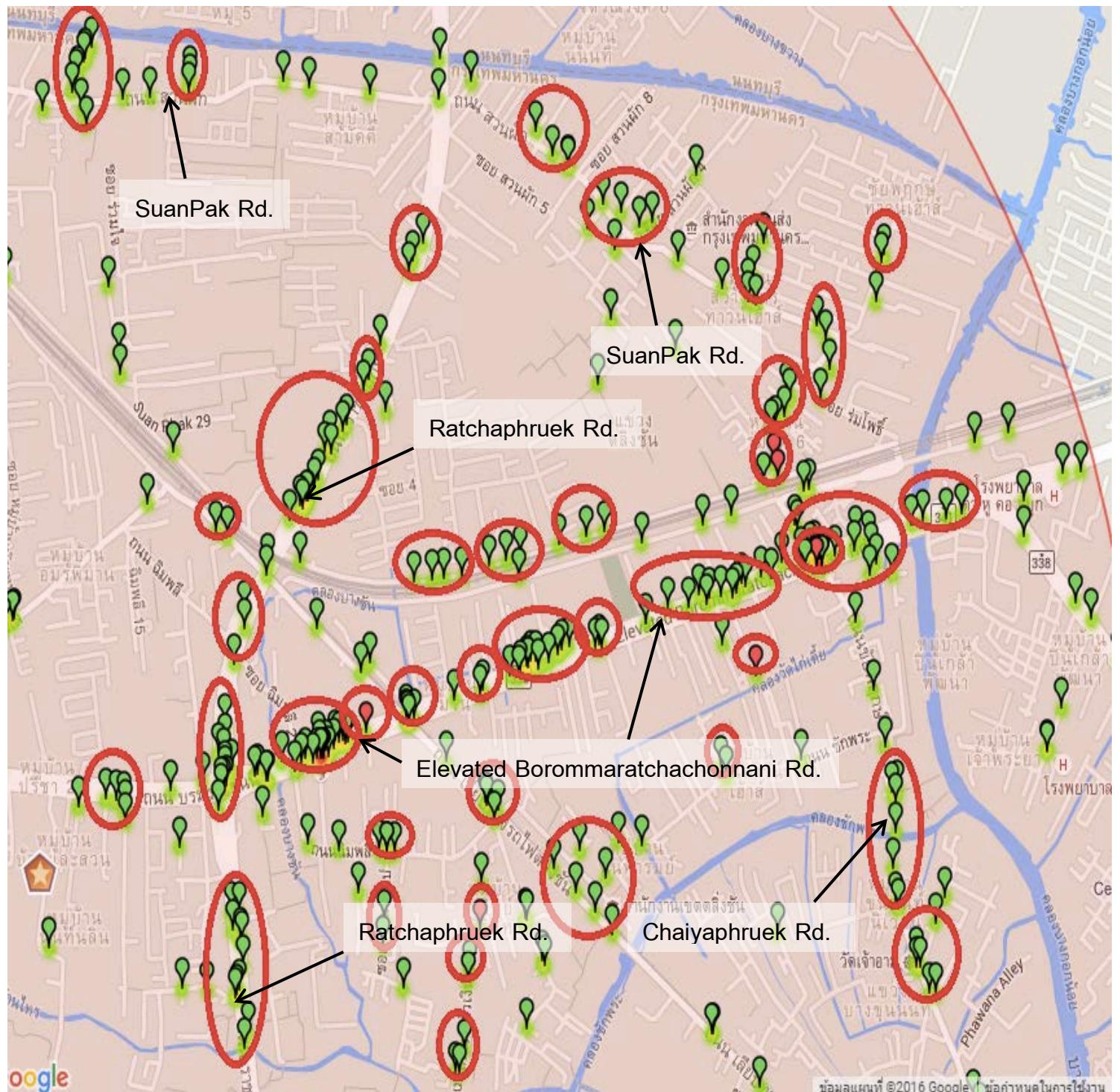




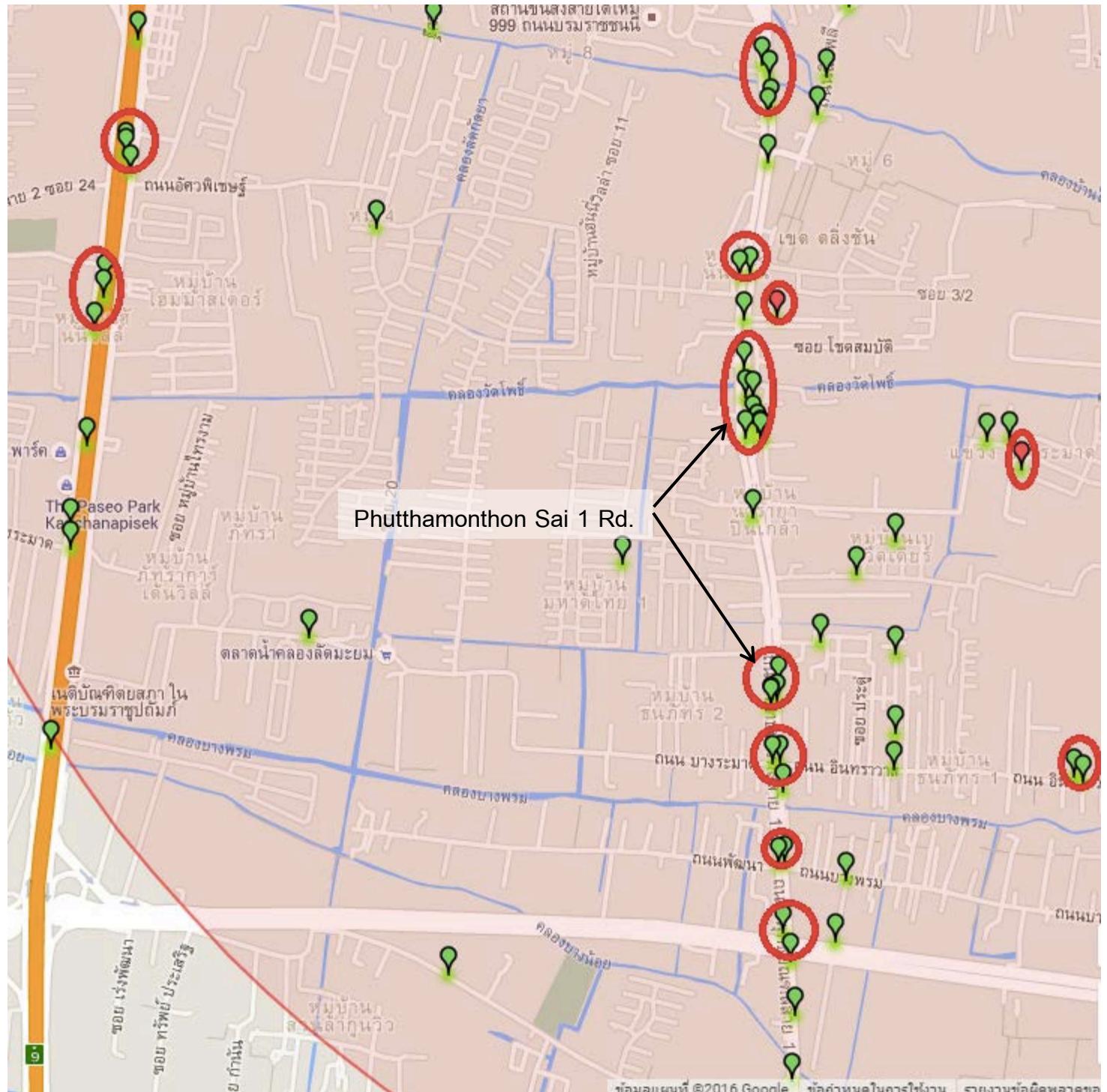
Picture 27: Point of Crash Talingchan District (Specific Areas).



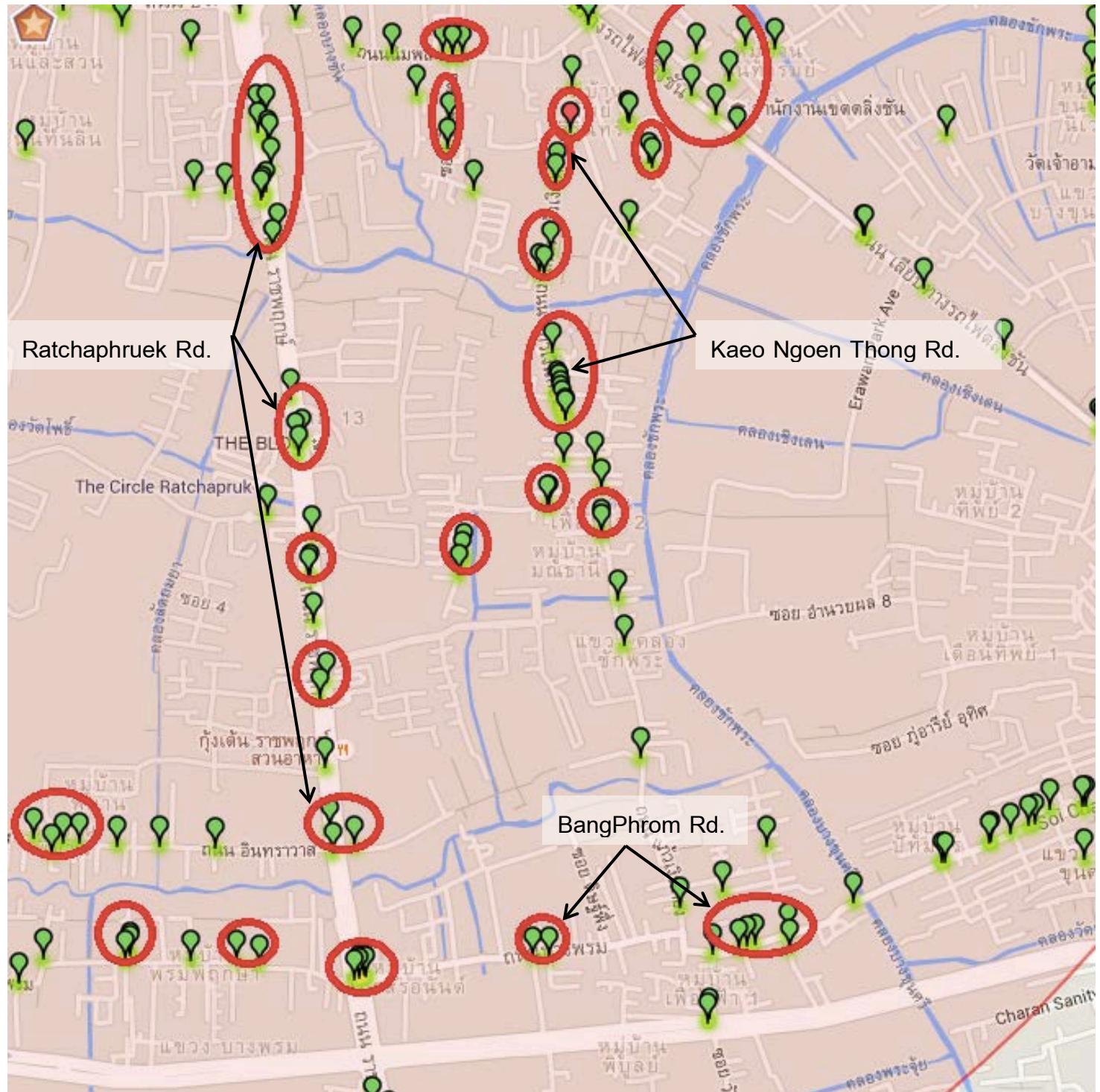
Picture 28: Point of Crash Talingchan District (Specific Areas).



Picture 29: Point of Crash Talingchan District (Specific Areas).

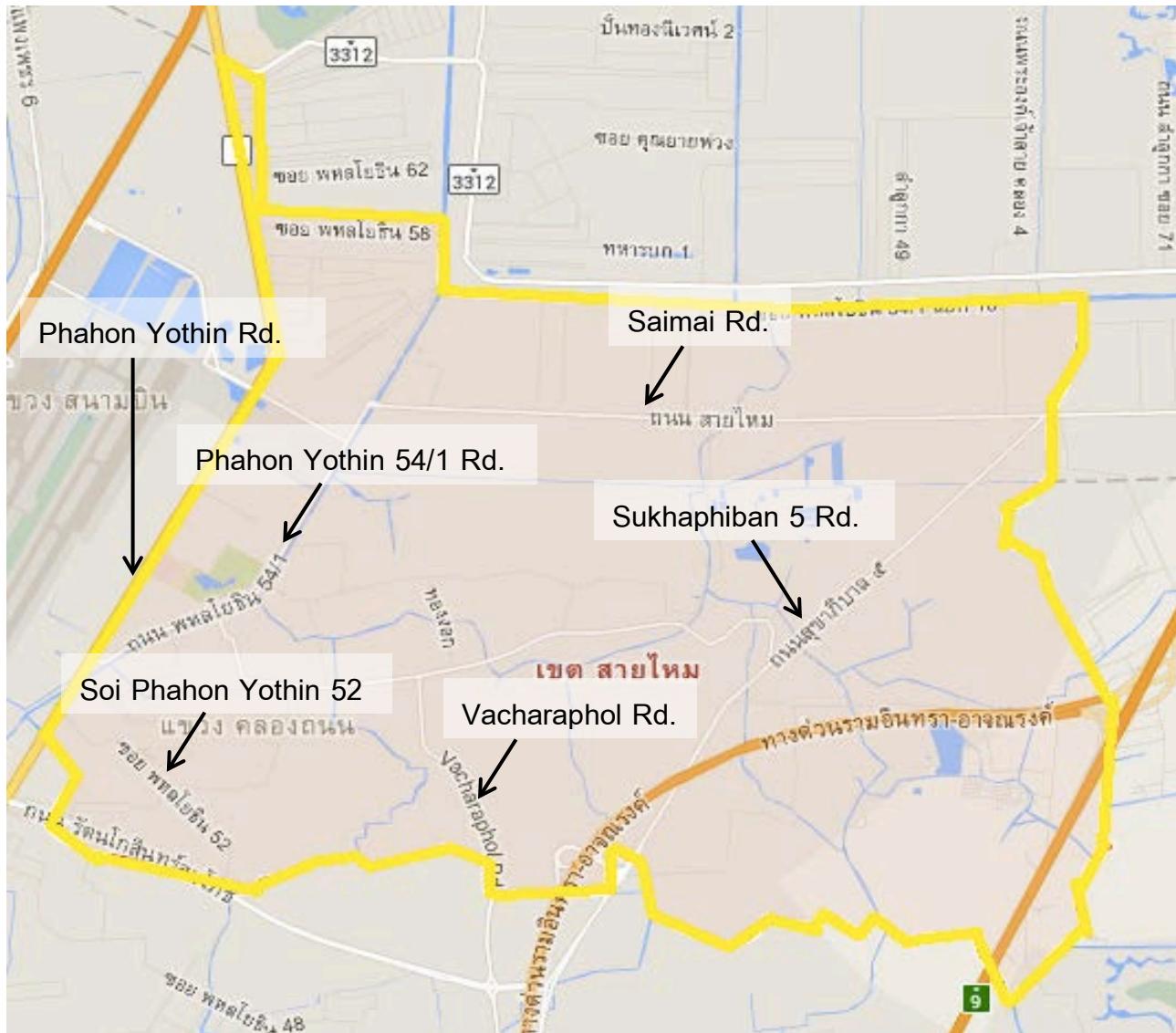


Picture 30: Point of Crash Talingchan District (Specific Areas).



7) Saimai

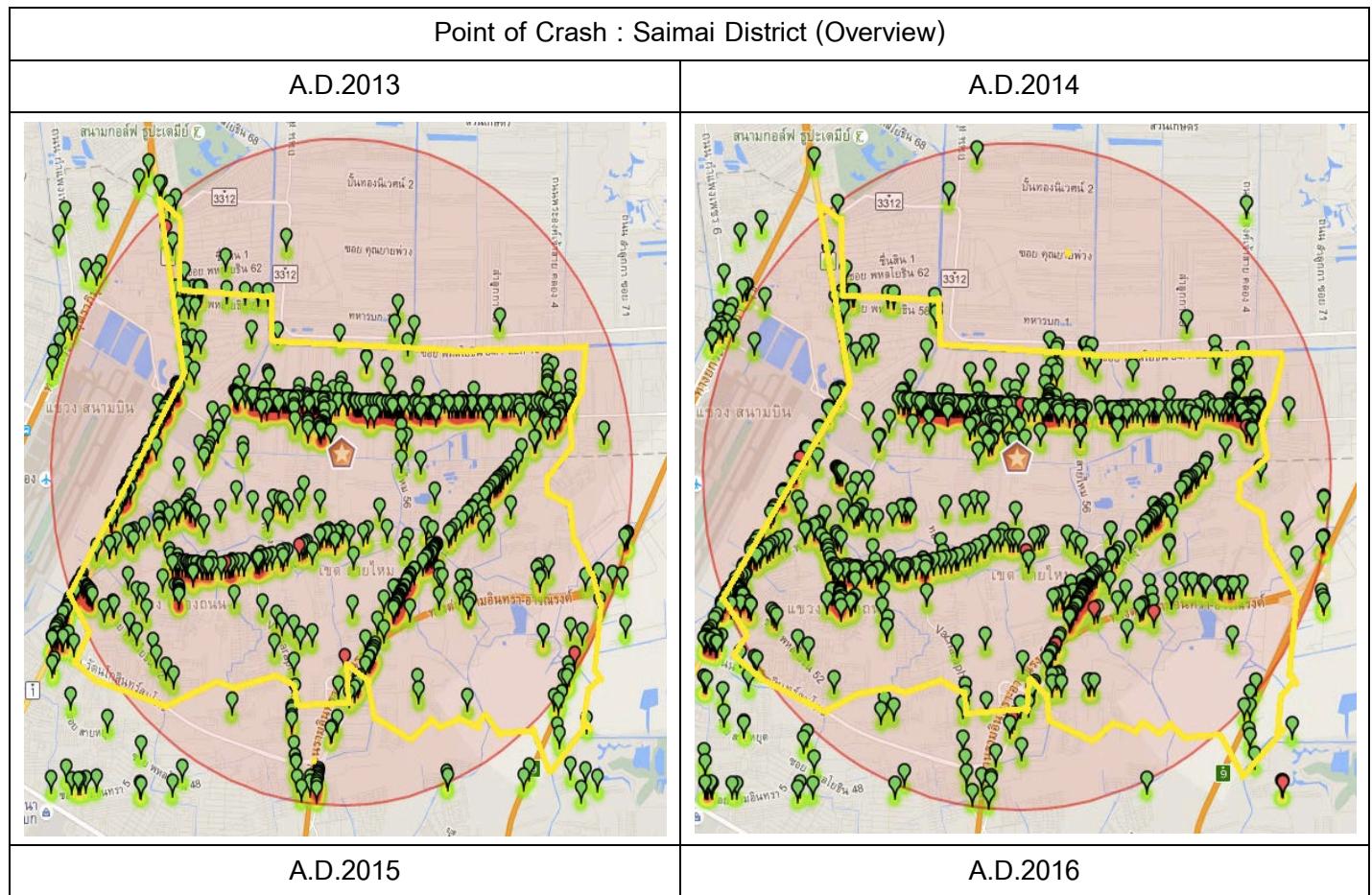
Picture 31: The Main Road of Saimai District.

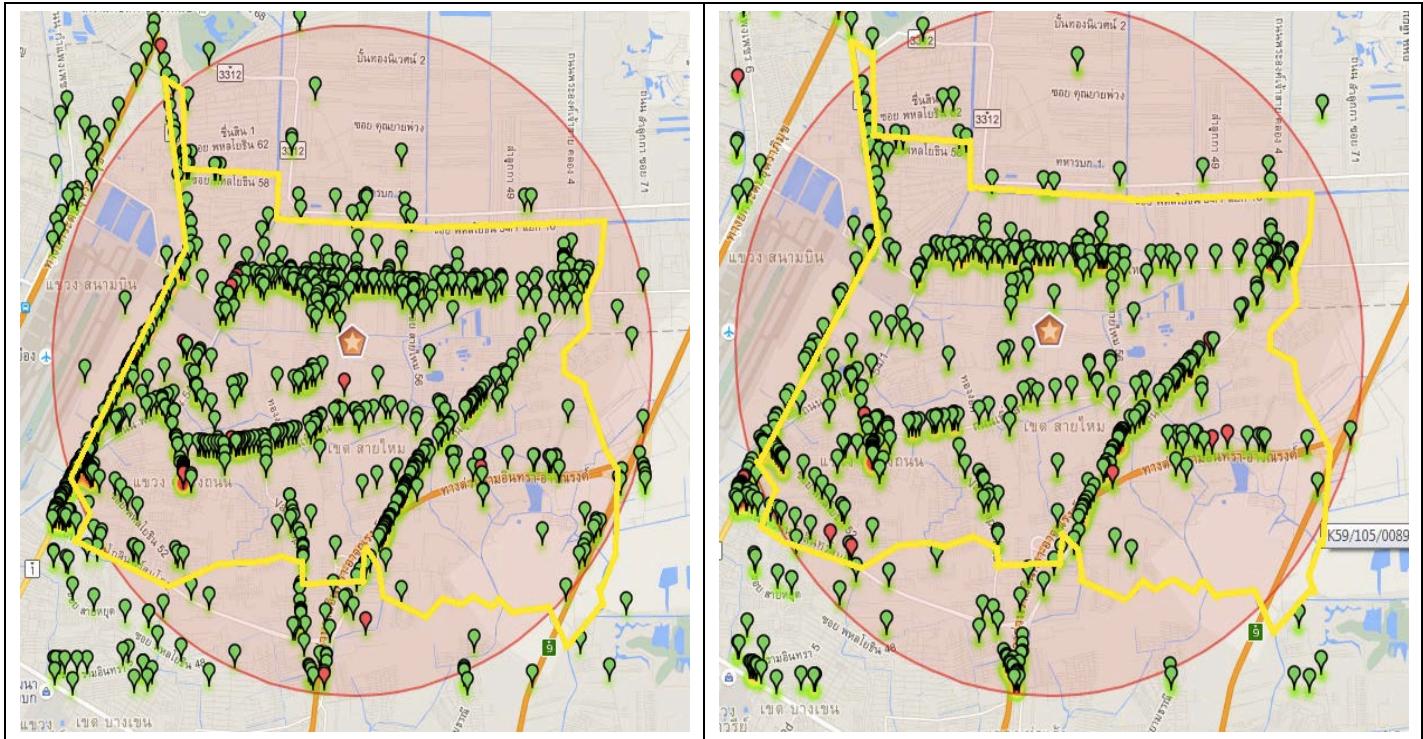


Saimai district has a main road below.

- 1) Saimai Rd. / 2) Sukhaphiban 5 Rd. / 3) Phahon Yothin 54/1 Rd. / 4) Phahon Yothin Rd. /
5) Vacharaphol Rd.

Table 9: Compared overview area of Saimai district between 2013-2016.

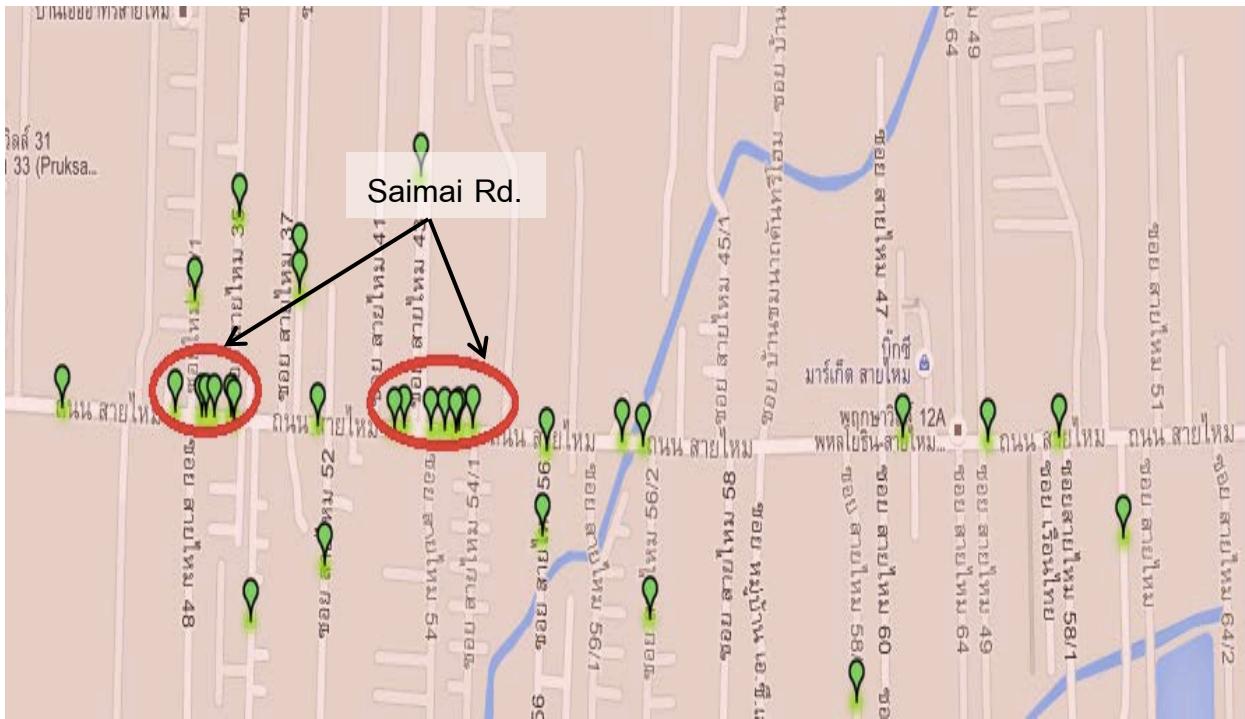




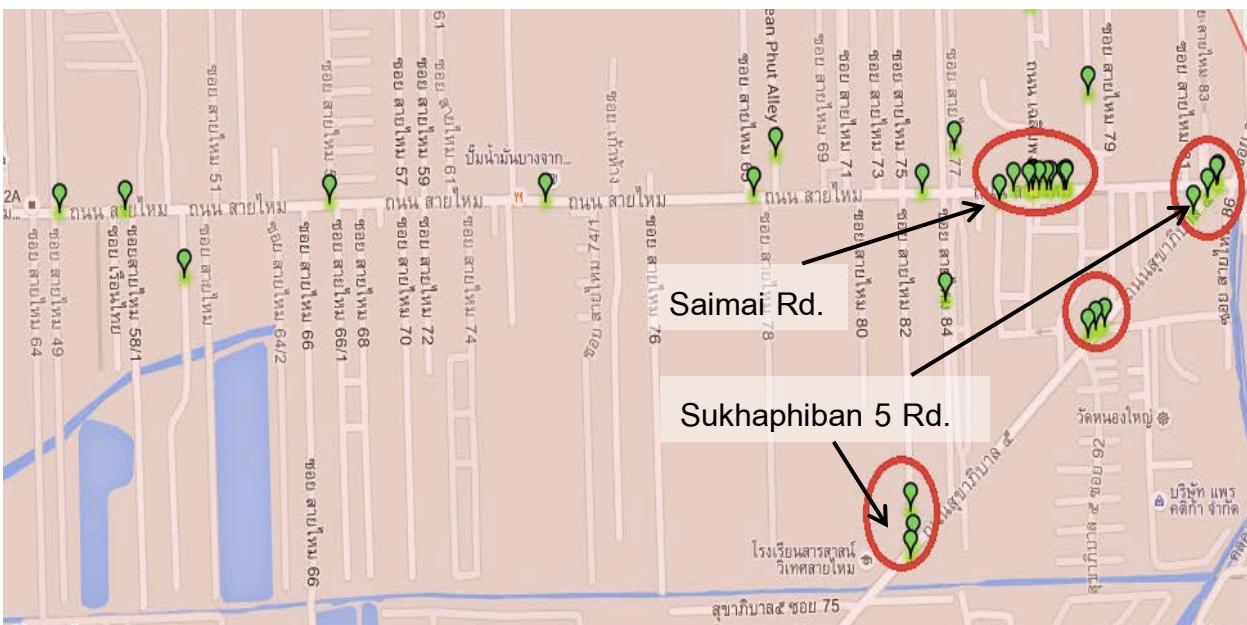
Picture 32: Point of Crash Saimai District (Specific Areas).



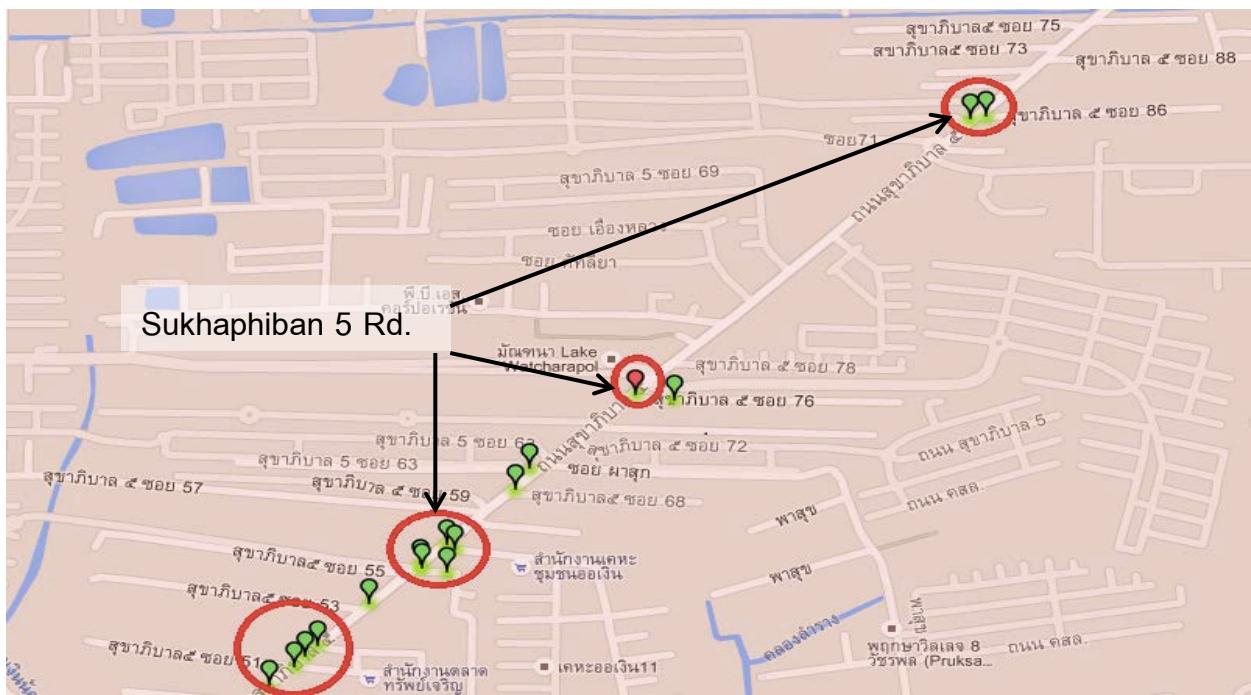
Picture 38 : Point of Crash Saimai District (Specific Areas).



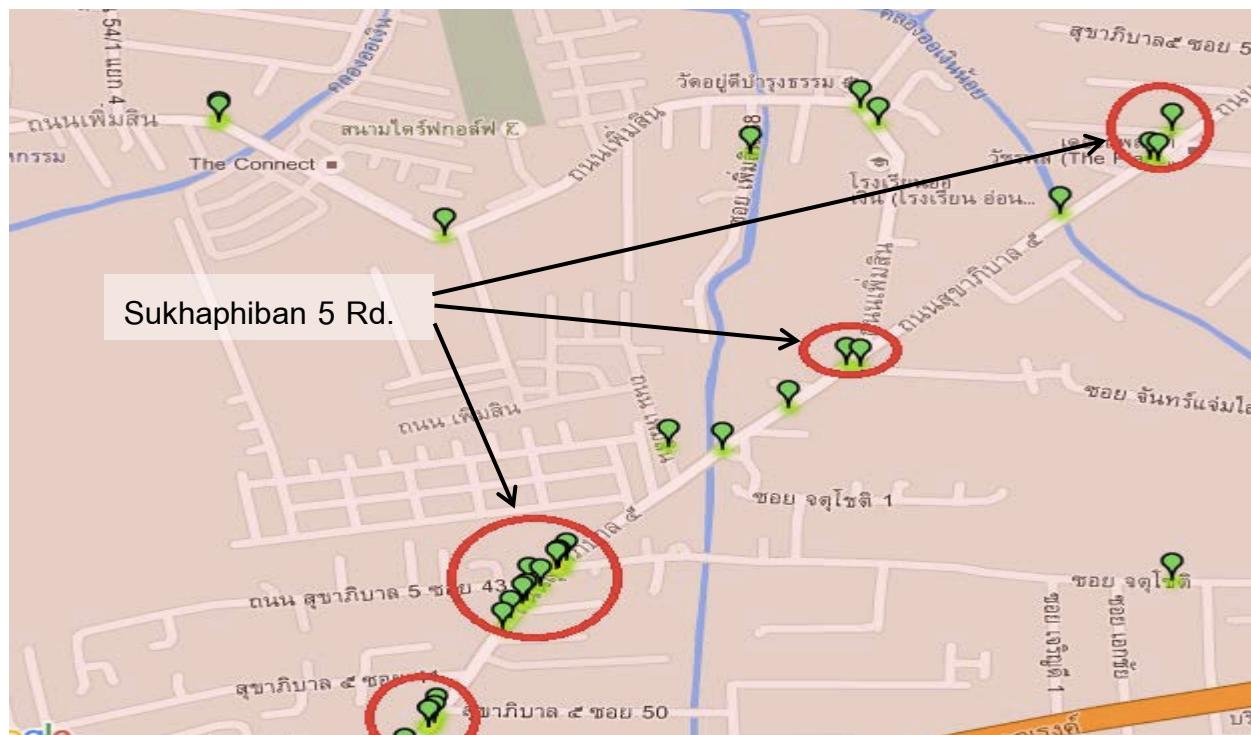
Picture 33: Point of Crash Saimai District (Specific Areas).



Picture 34: Point of Crash Saimai District (Specific Areas).



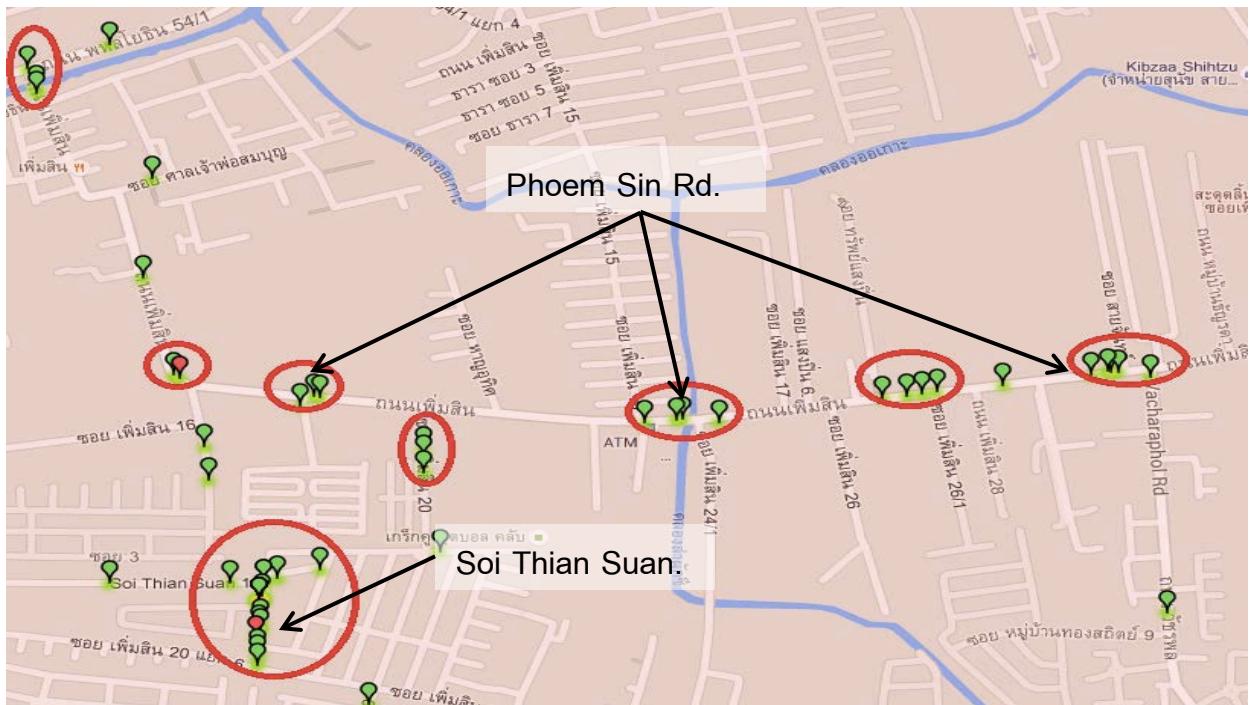
Picture 35: Point of Crash Saimai District (Specific Areas).



Picture 36: Point of Crash Saimai District (Specific Areas).



Picture 37: Point of Crash Saimai District (Specific Areas).



Picture 38: Point of Crash Saimai District (Specific Areas).



8) Bangkhen

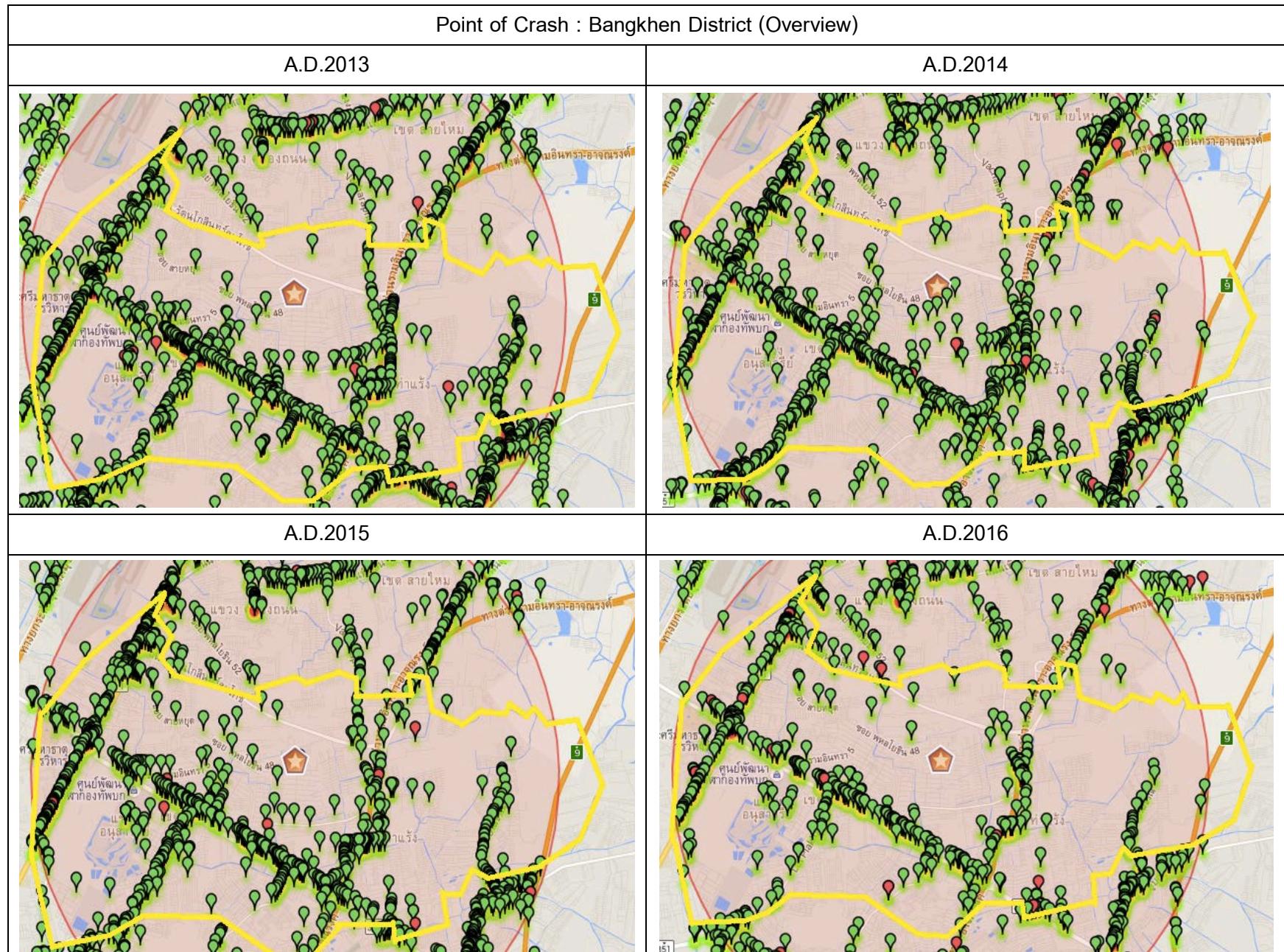
Picture 39: The Main Road of Bangkhen District.



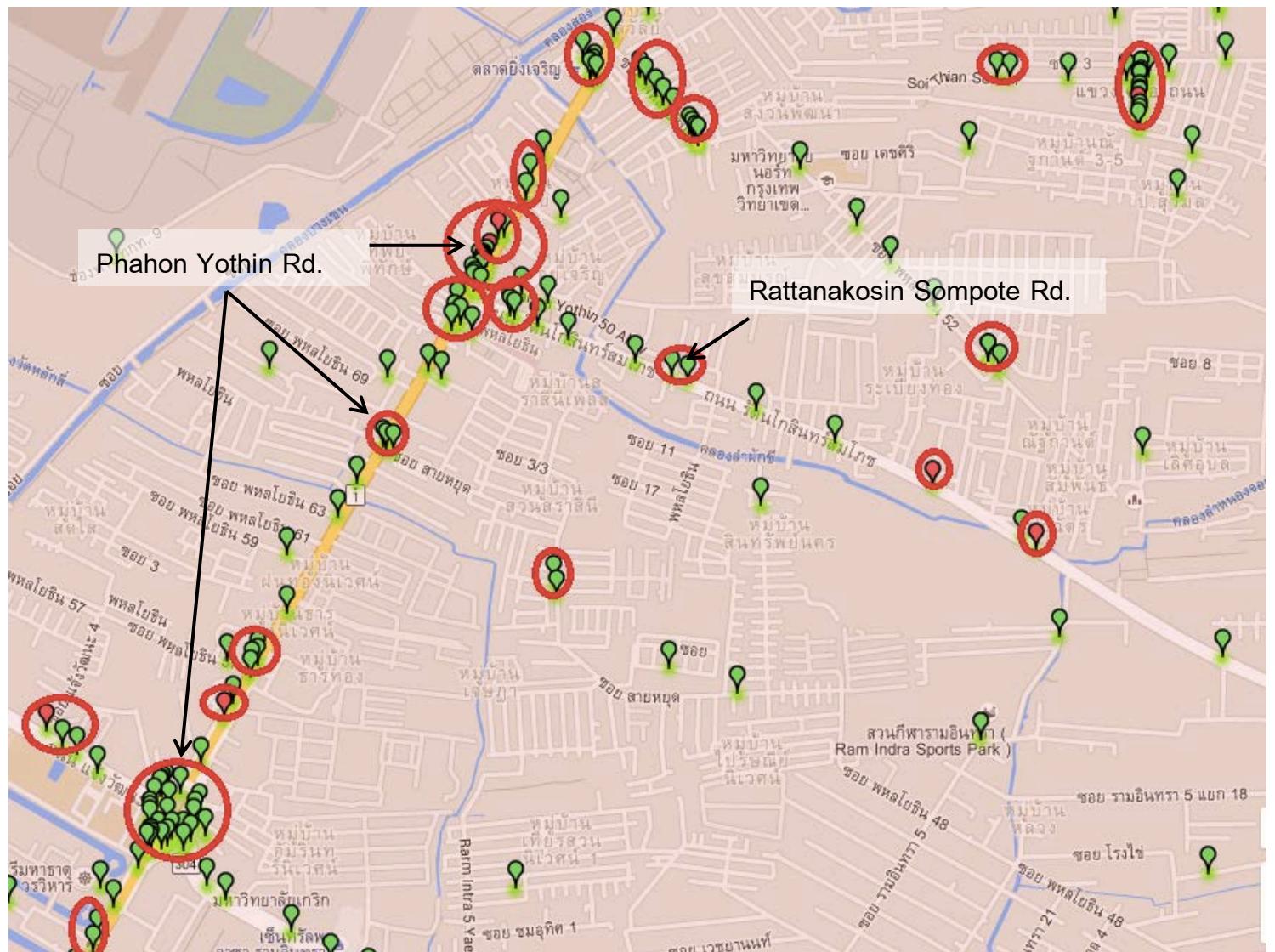
Bangkhen district has a main road below.

- 1) Phahon Yothin Rd. / 2) Ram Intra Rd. / 3) Sukhaphiban 5 Rd. / 4) Lat Plakhao Rd. /
- 5) Rattanakosin Sompote Rd.

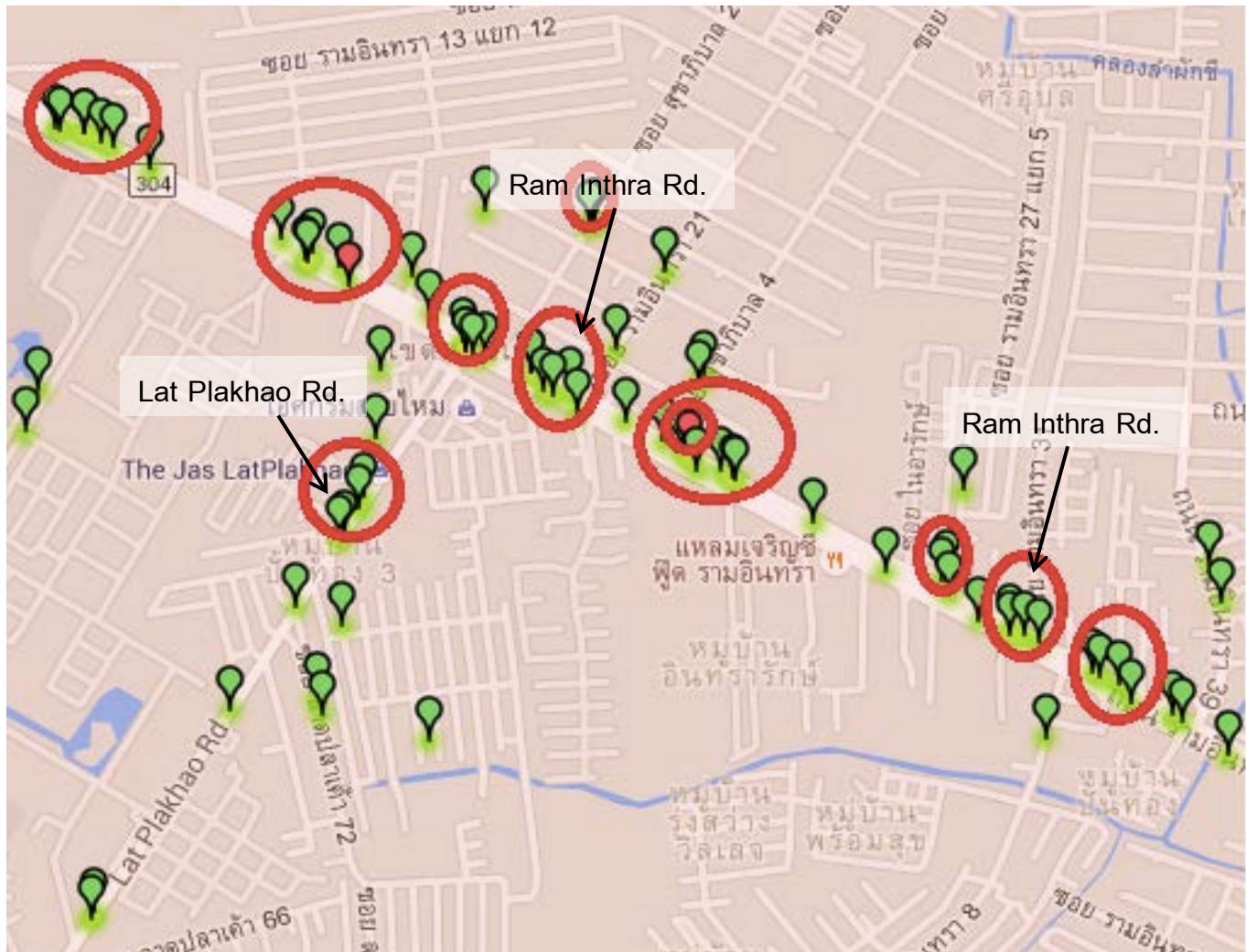
Table 10: Compared overview area of Bangkhen district between 2013-2016.



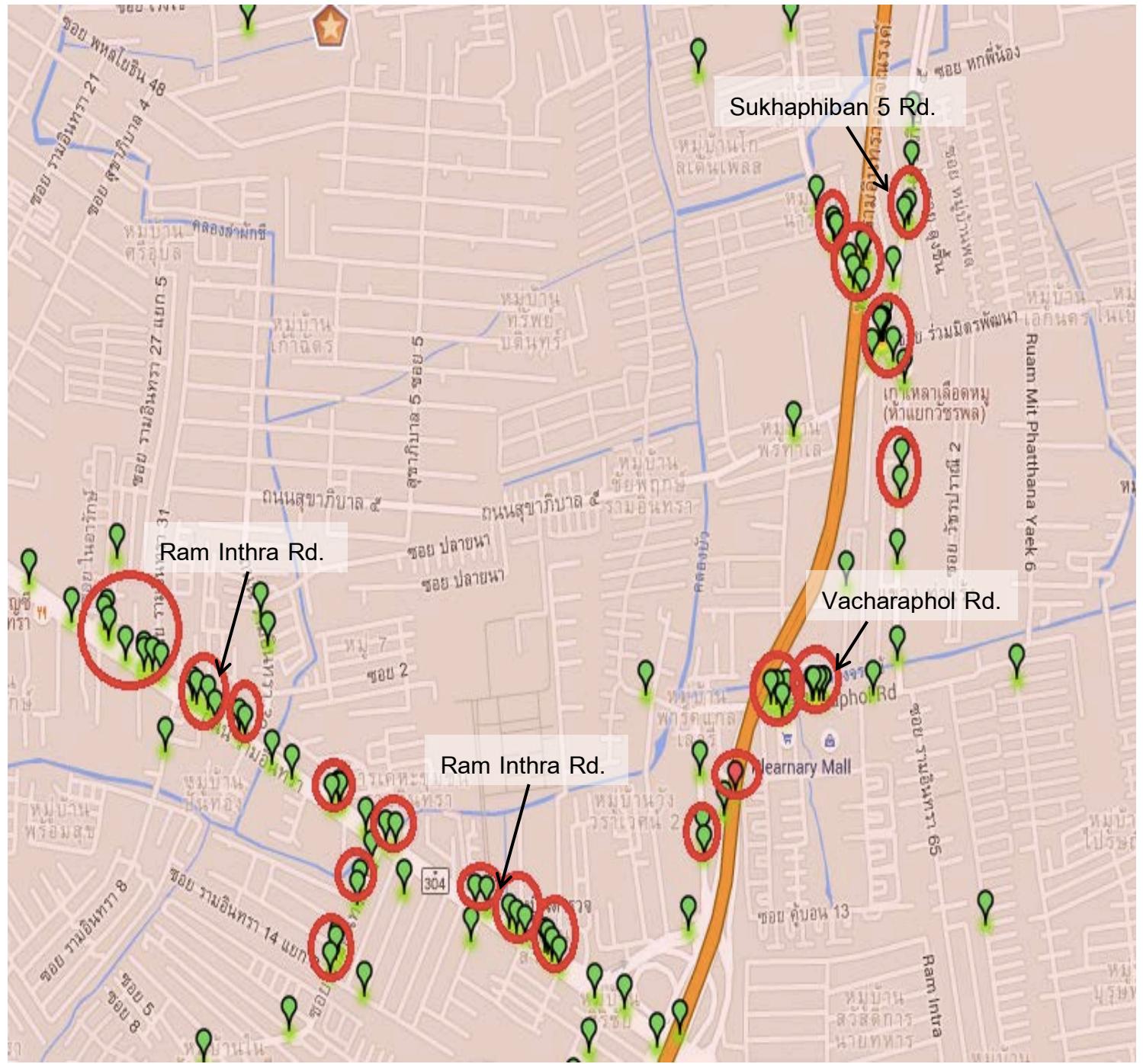
Picture 40: Point of Crash Bangken District (Specific Areas).



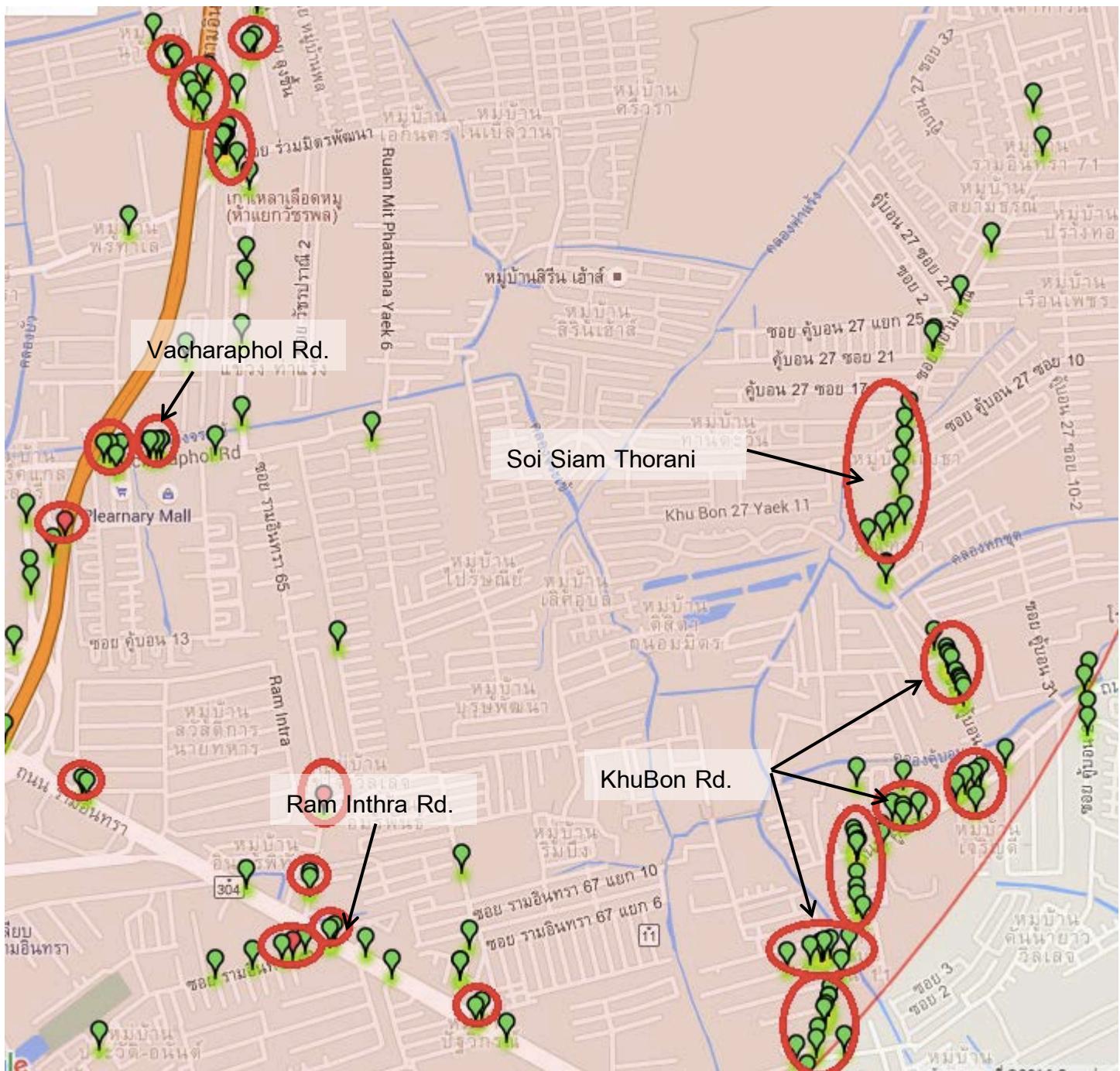
Picture 41: Point of Crash Bangkhen District (Specific Areas).



Picture 42: Point of Crash Bangkhen District (Specific Areas).



Picture 43: Point of Crash Bangken District (Specific Areas).



9) Lardpraw

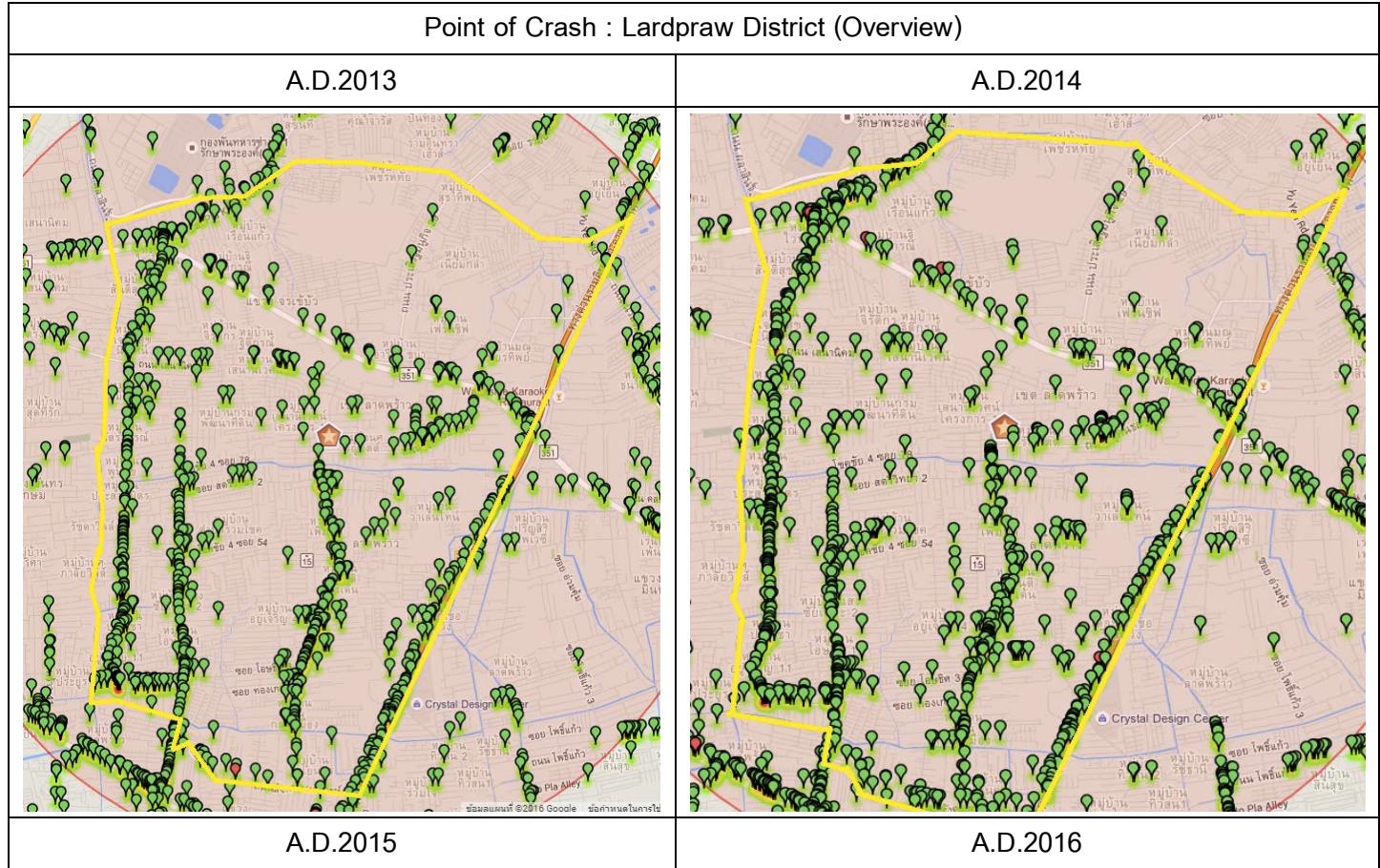
Picture 44: The Main Road of Lardpraw District.



Lardpraw district has a main road below.

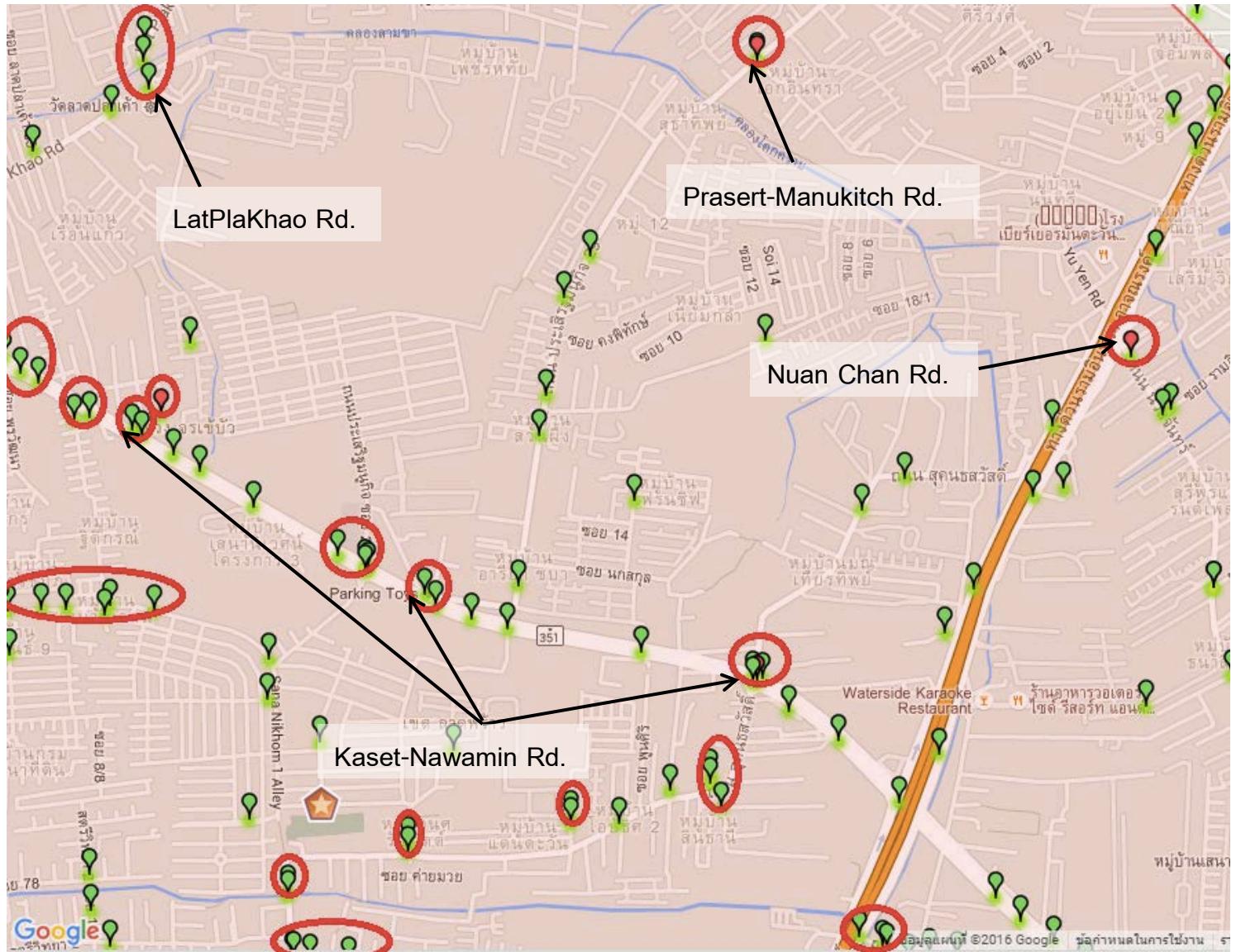
- 1) LatPlaKhao Rd. / 2) Prasert-Manukitch Rd. / 3) Kaset-Nawamin Rd. / 4) Lat Phrao Wang Hin Rd. /
- 5) PraditManudharm Rd. / 6) NakNiwat Rd. / 7) ChokChai4 Rd. / 8) Songkhim Songkhro Rd.

Table 11: Compared overview area of Lardpraw district between 2013-2016.

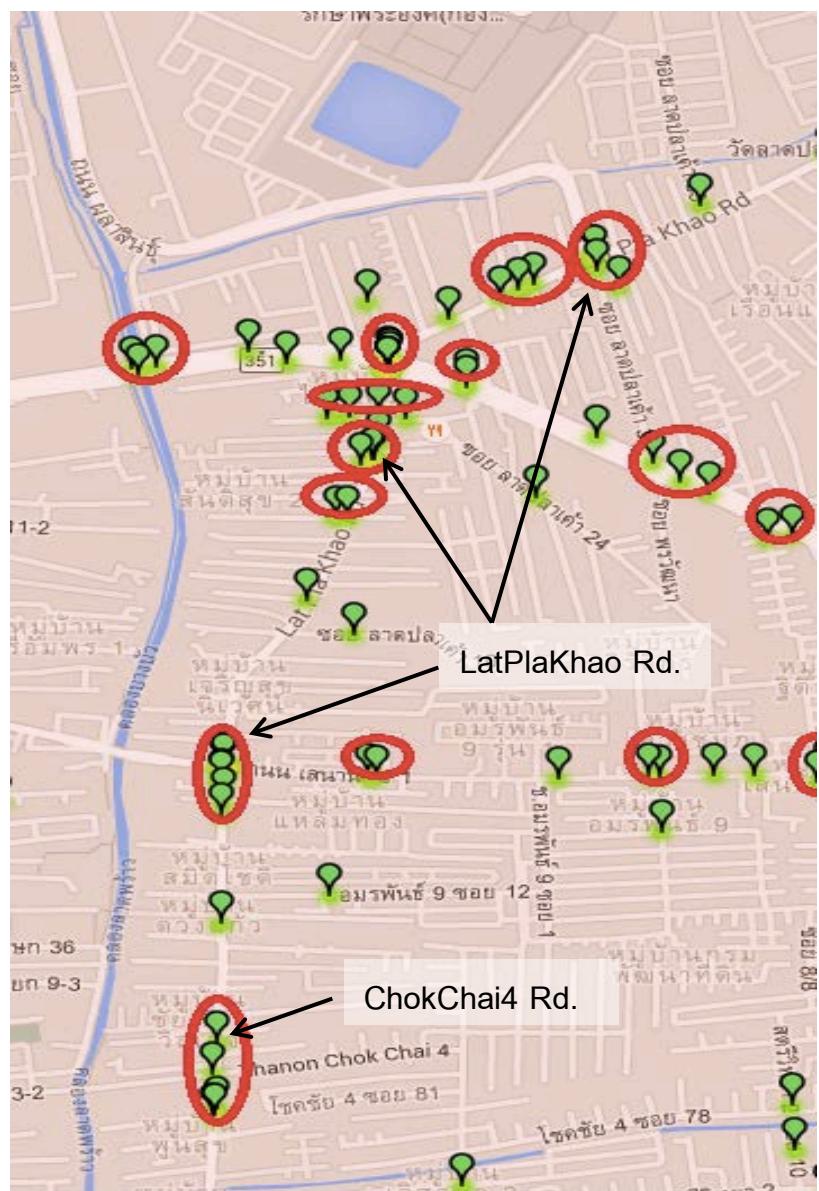




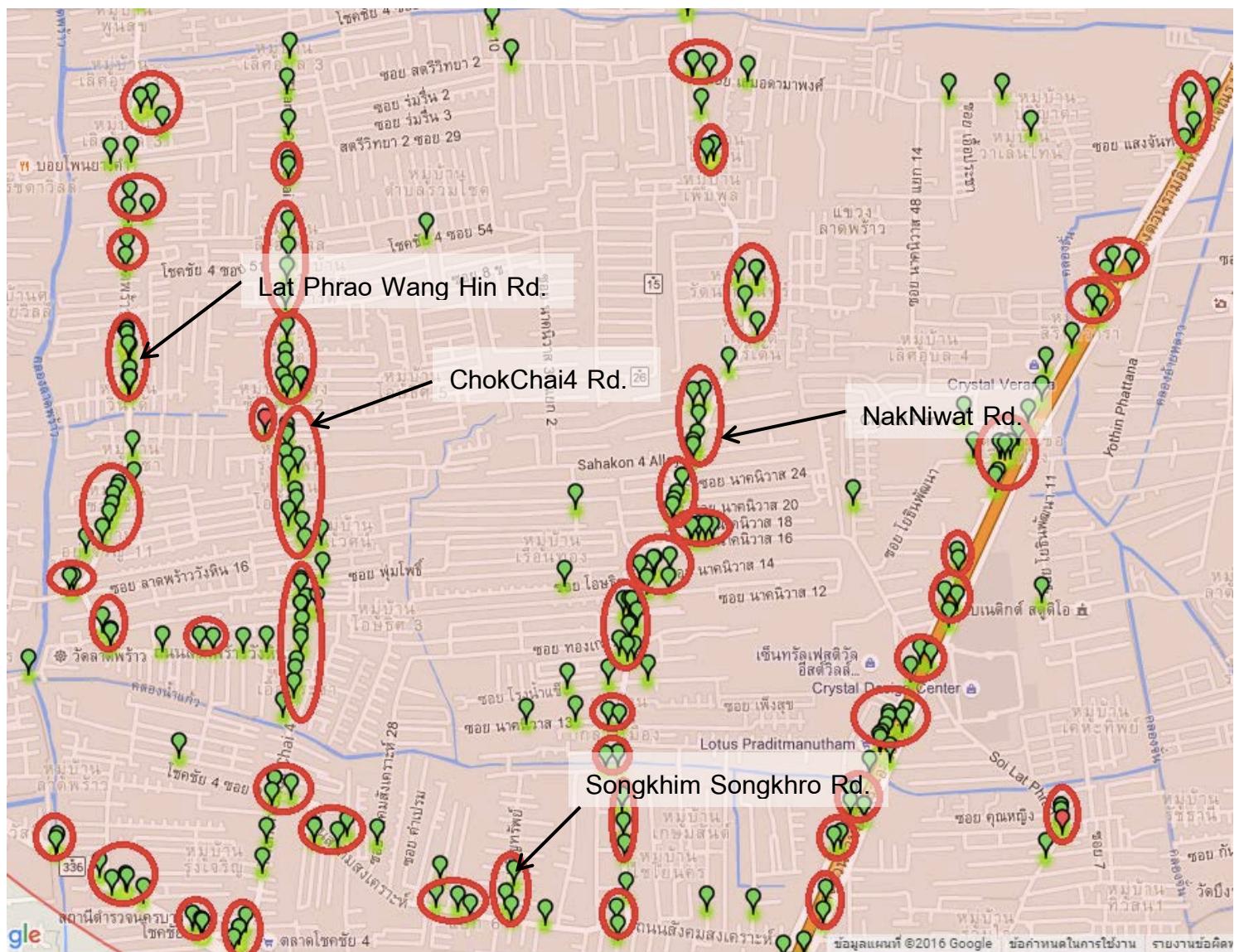
Picture 45: Point of Crash Lardpraw District (Specific Areas).



Picture 46: Point of Crash Lardpraw District (Specific Areas).

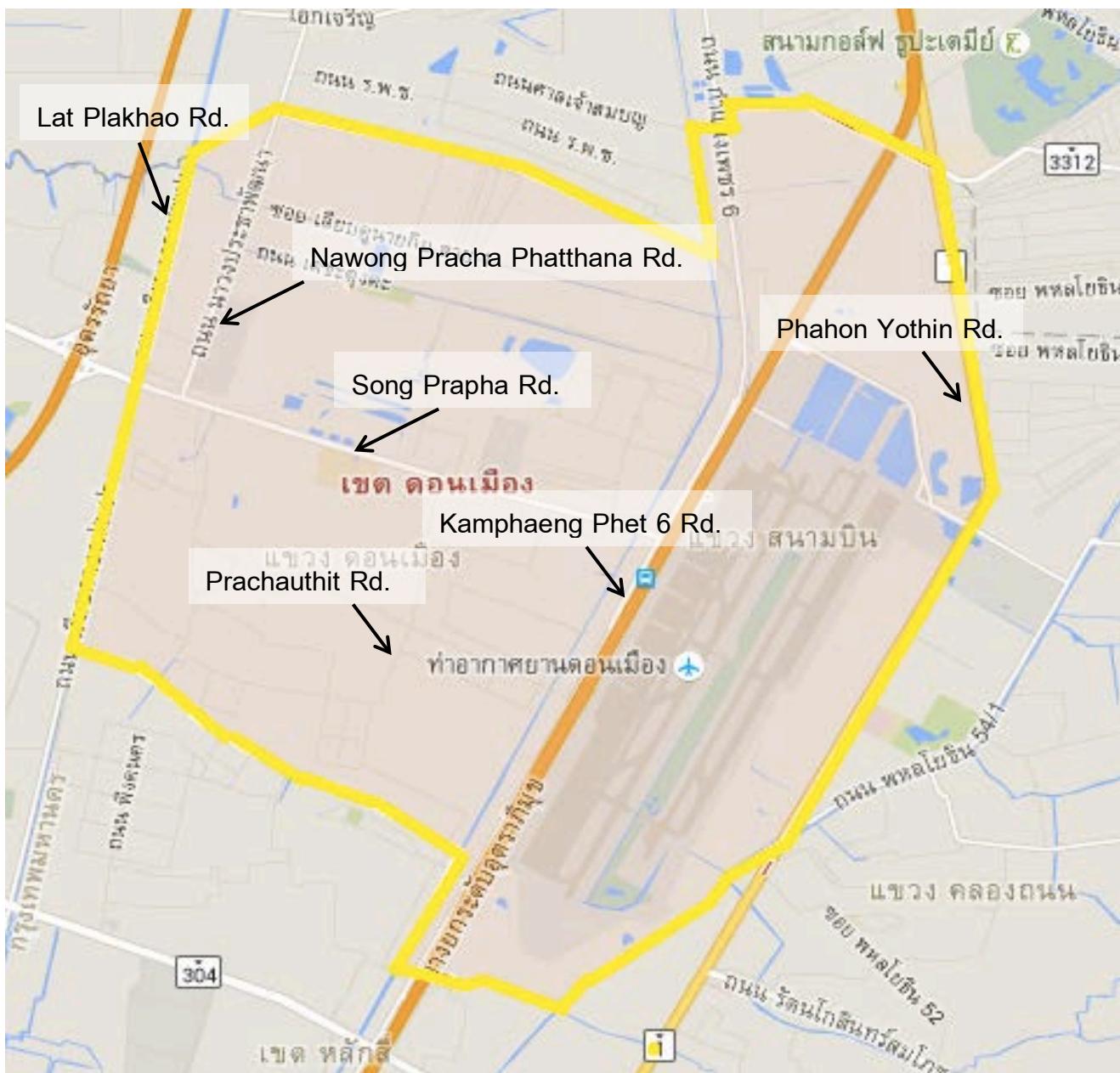


Picture 47: Point of Crash Lardpraw District (Specific Areas).



10) Dongmueang

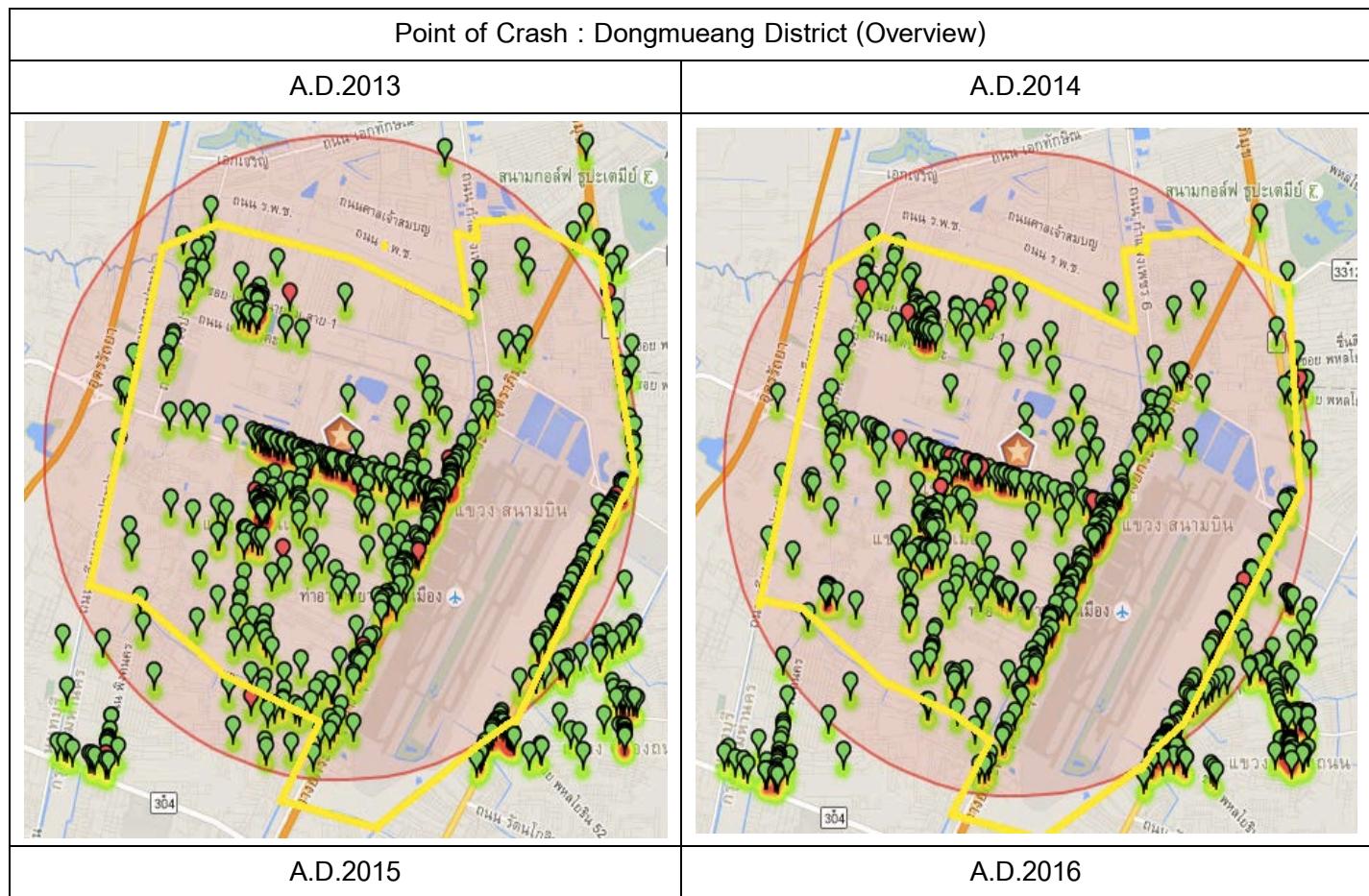
Picture 48: The Main Road of Dongmueang District.

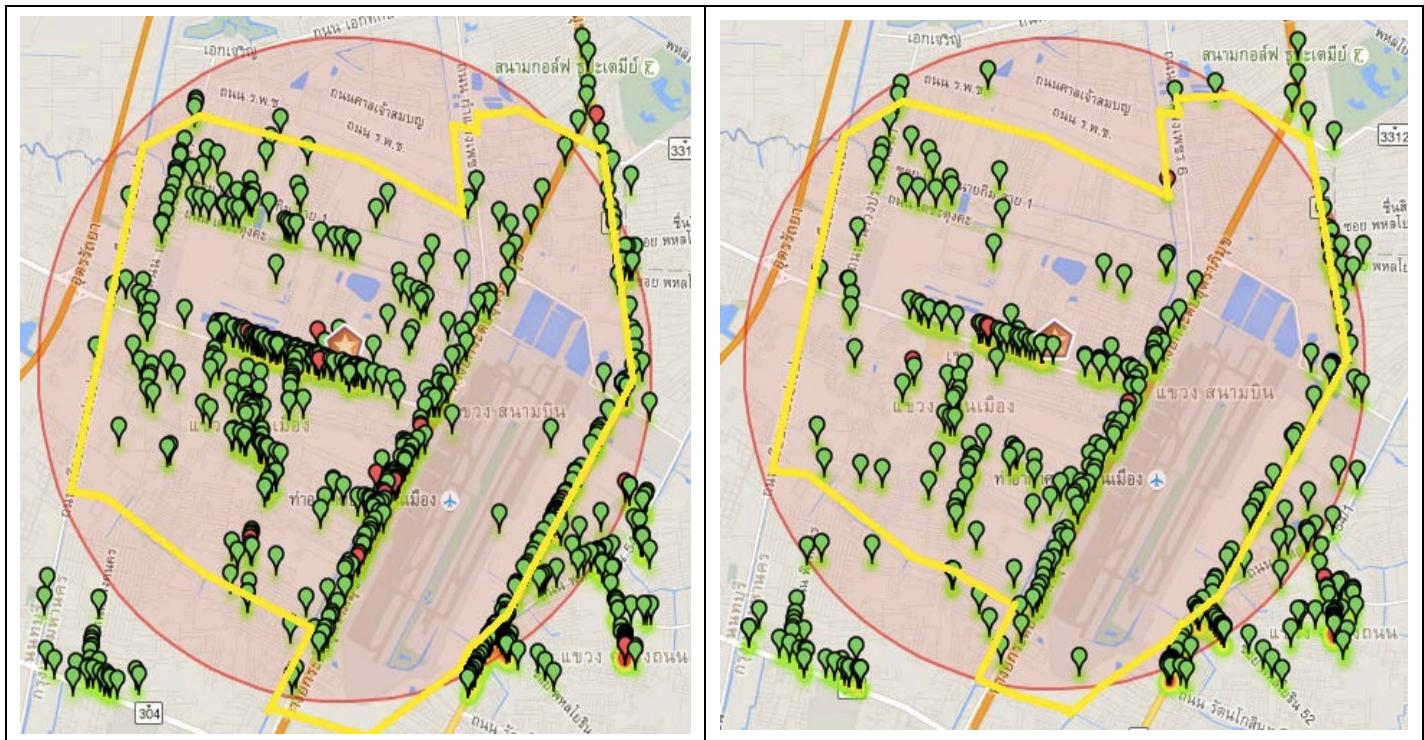


Dongmueang district has a main road below.

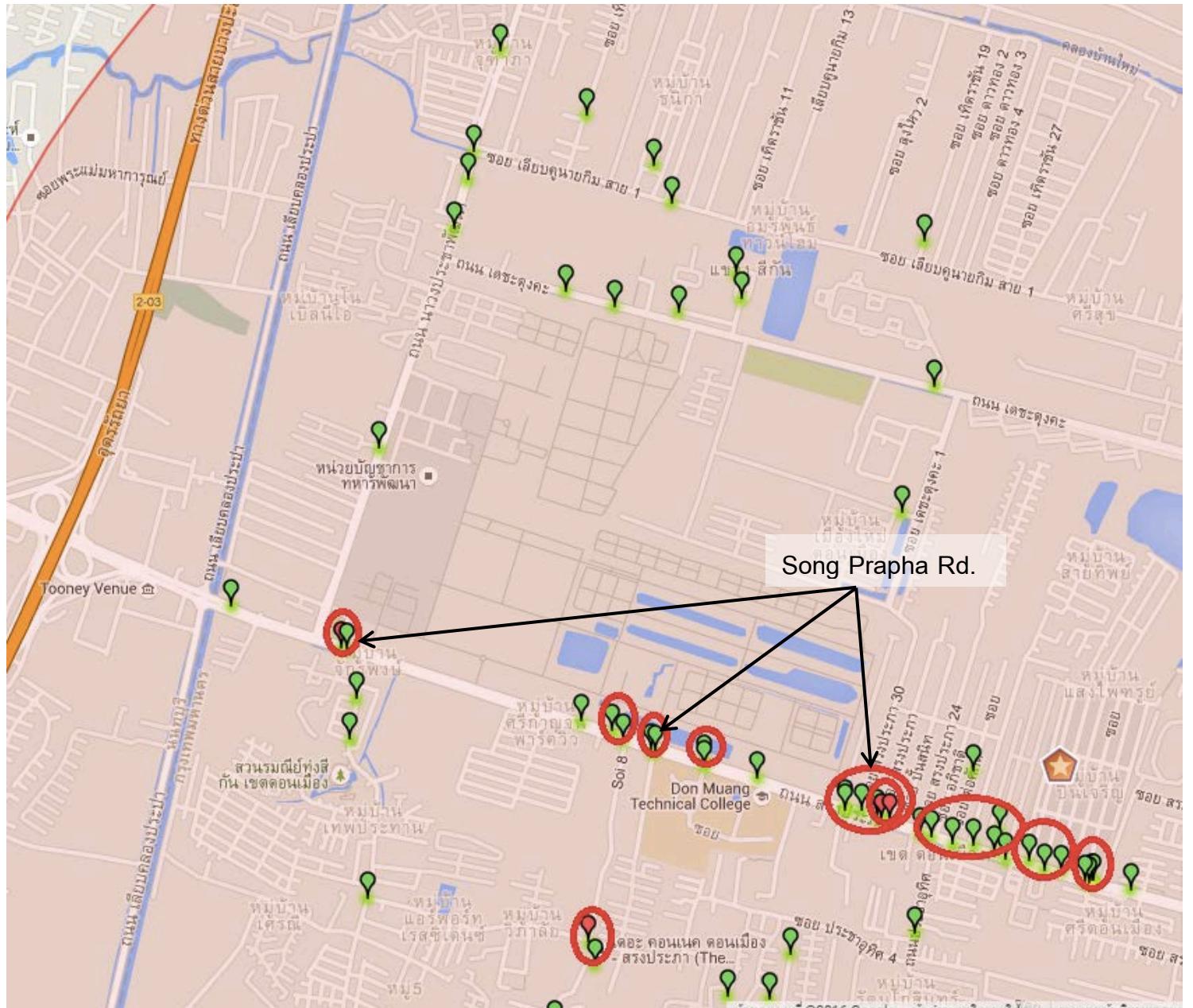
- 1) LatPlaKhao Rd. / 2) Nawong Pracha Phatthana Rd. / 3) Phahon Yothin Rd. / 4) Song Praha Rd. /
- 5) Kamphaeng Phet 6 Rd. / 6) Prachauthit Rd.

Table 12: Compared overview area of Dongmueang district between 2013-2016.

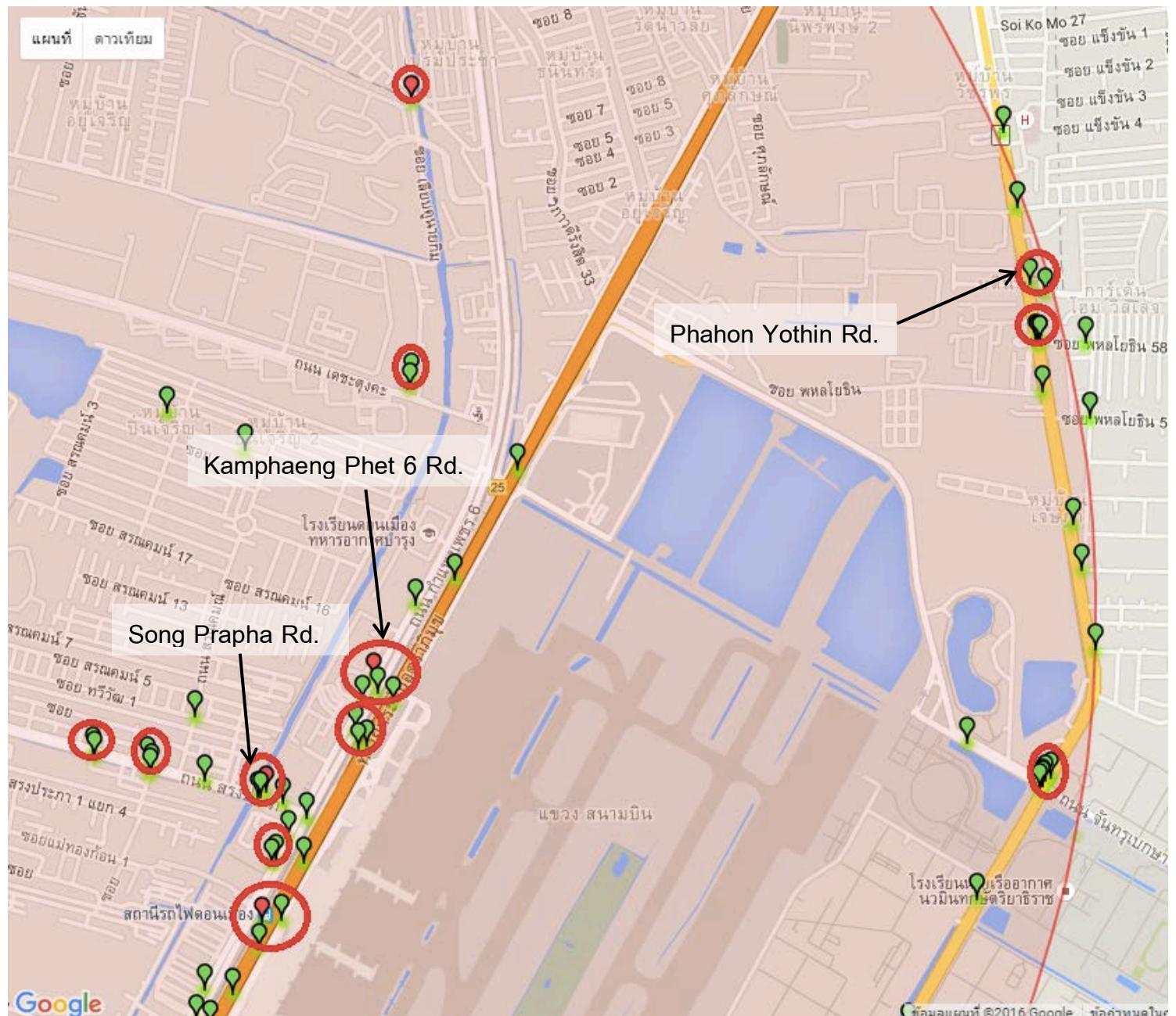




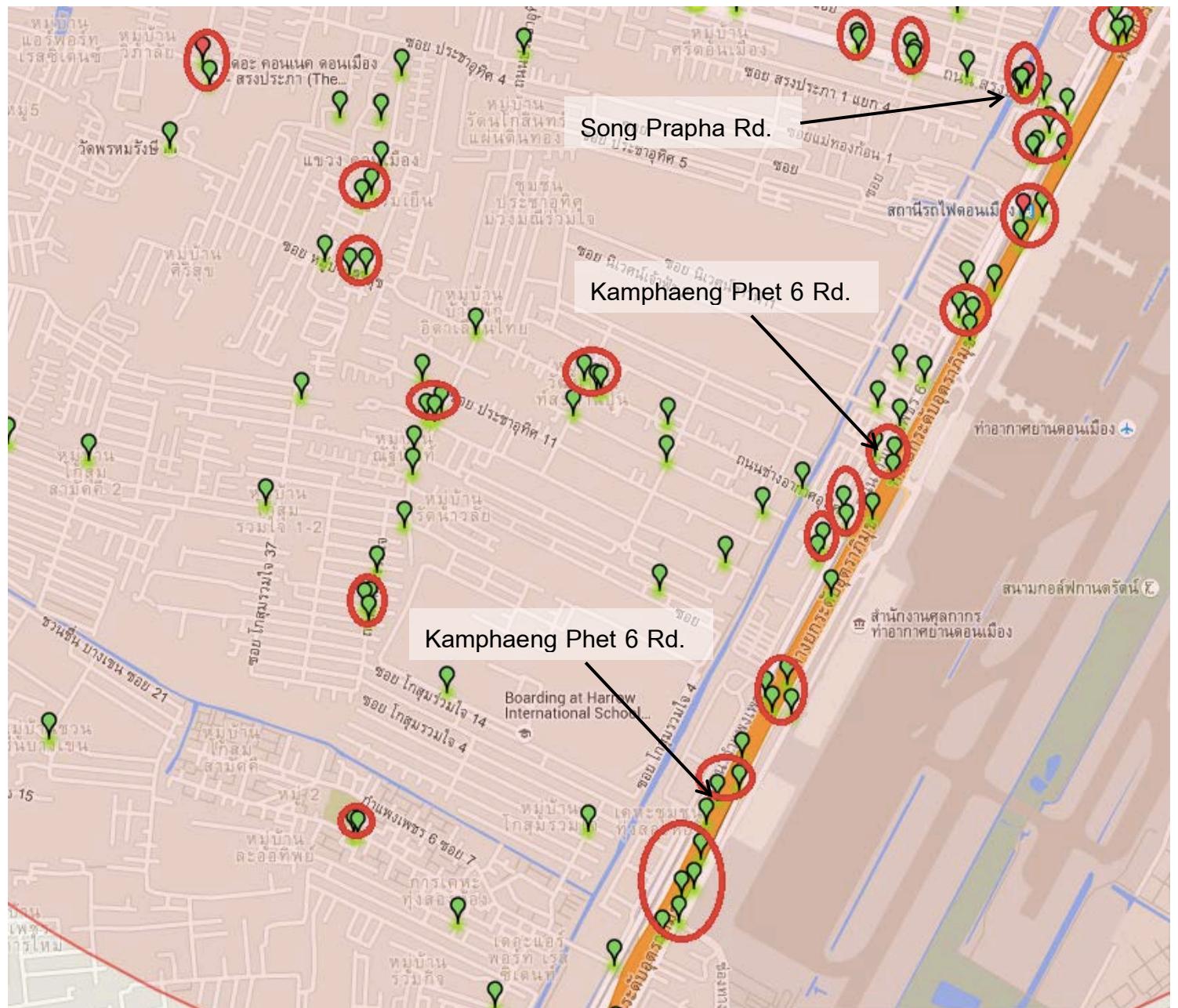
Picture 49: Point of Crash Dongmueang District (Specific Areas).



Picture 50: Point of Crash Dongmueang District (Specific Areas).

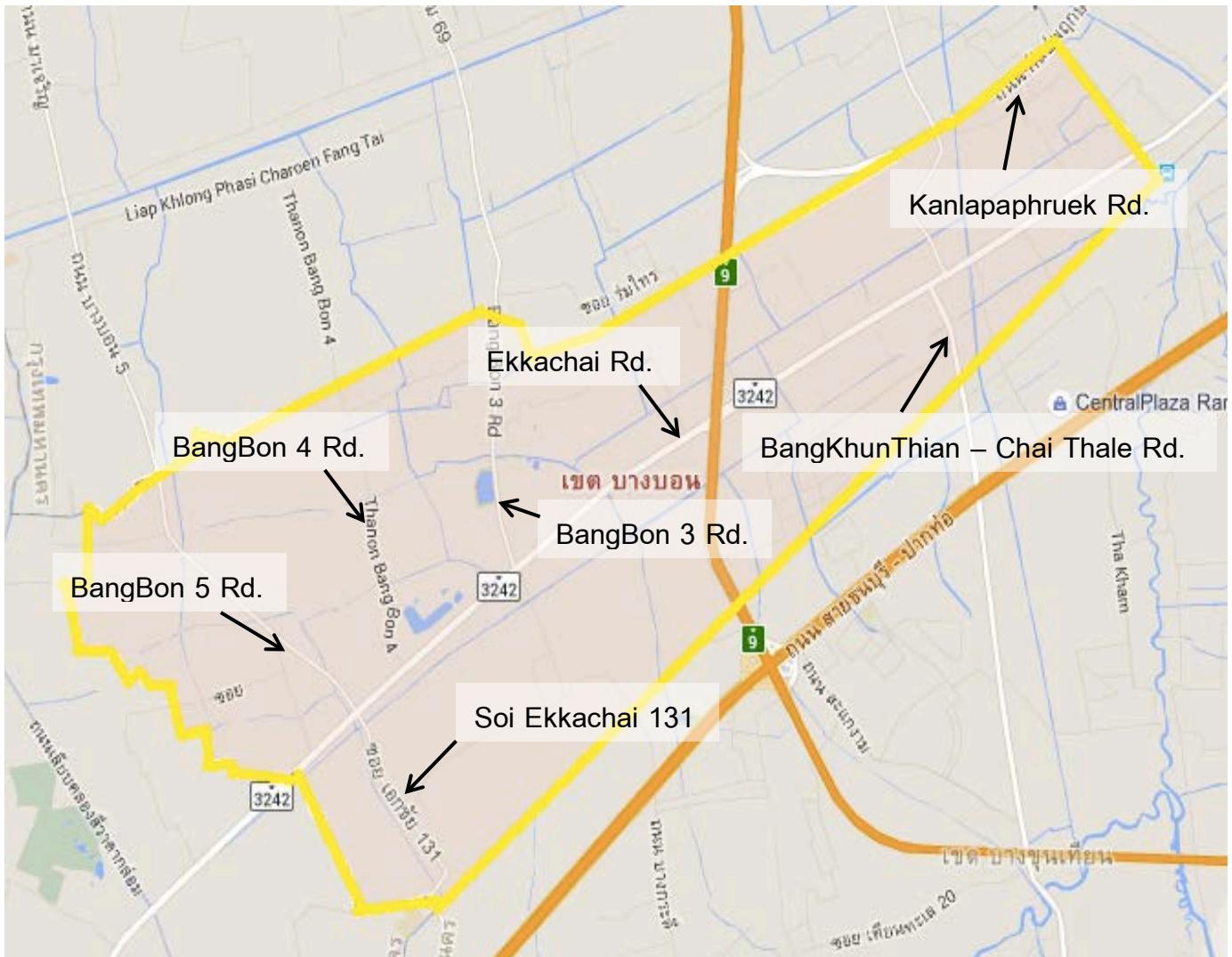


Picture 51: Point of Crash Dongmueang District (Specific Areas).



11) Bangbone

Picture 52: The Main Road of Bangbone District.



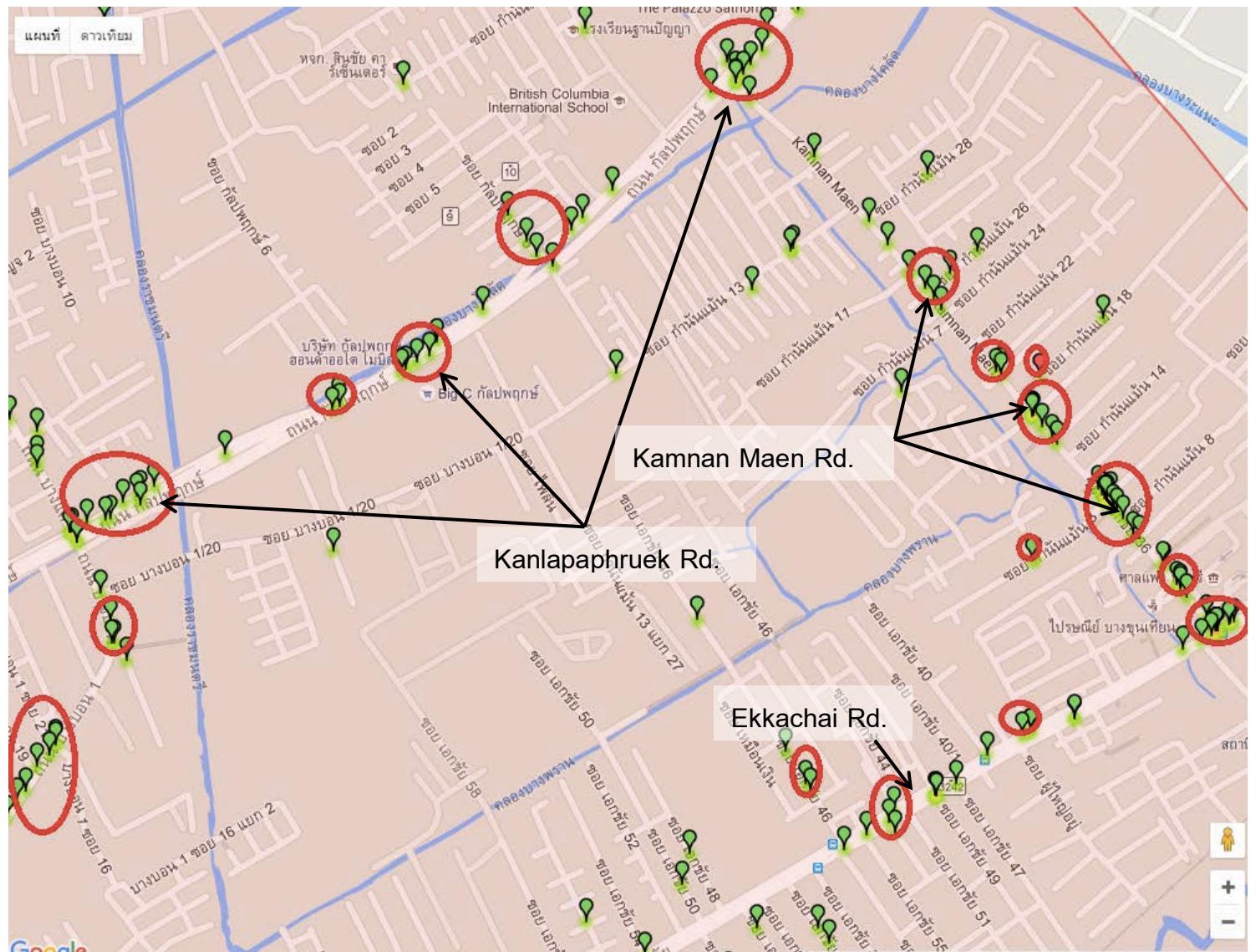
Bangbone district has a main road below.

- 1) Kanlapaphruek Rd. / 2) Ekkachai Rd. / 3) BangBon 4 Rd. / 4) BangKhunThian – Chai Thale Rd. /
- 5) BangBon 3 Rd. / 6) BangBon 5 Rd.

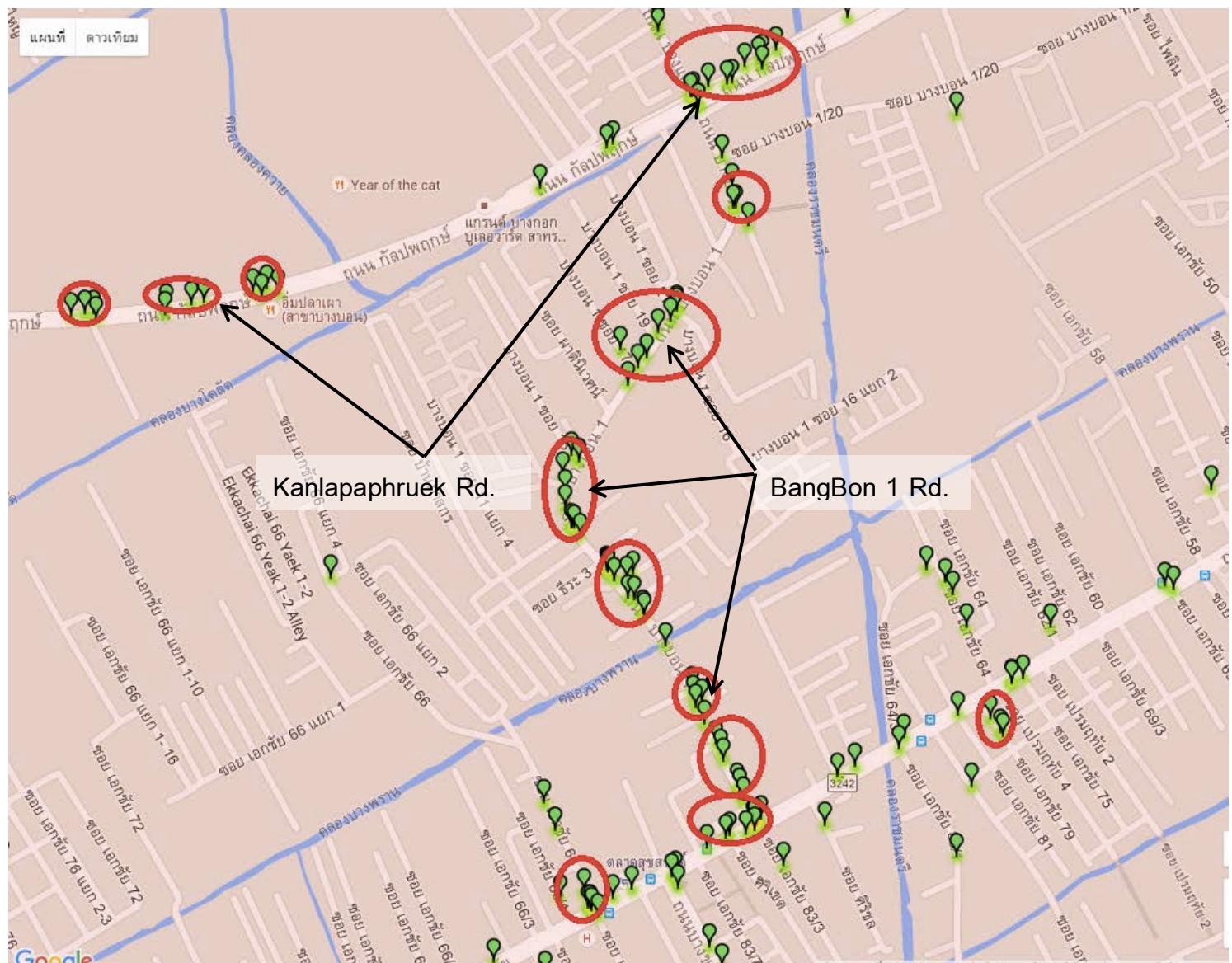
Table 13: Compared overview area of Bangbone district between 2013-2016.



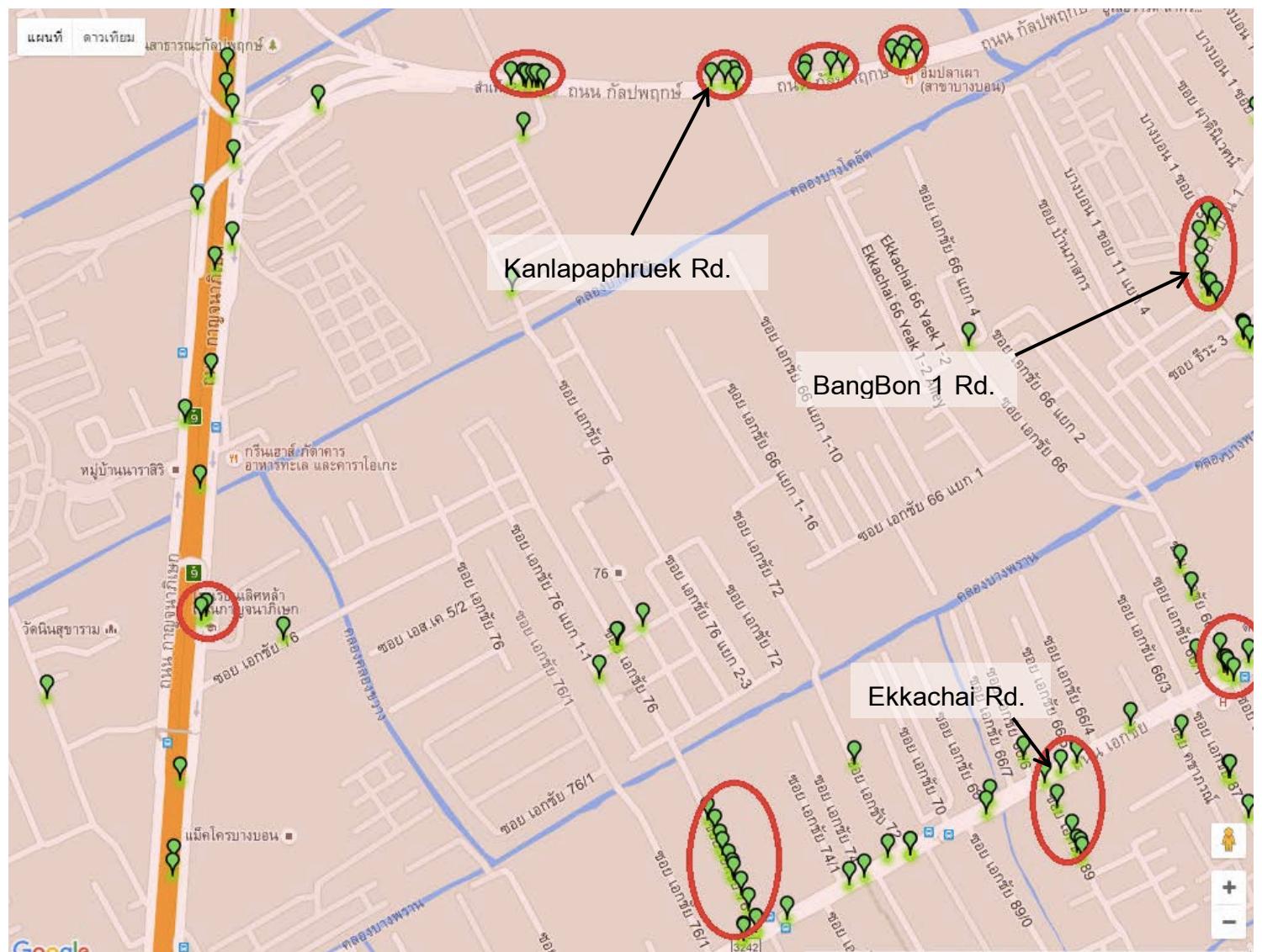
Picture 53: Point of Crash Bangbone District (Specific Areas).



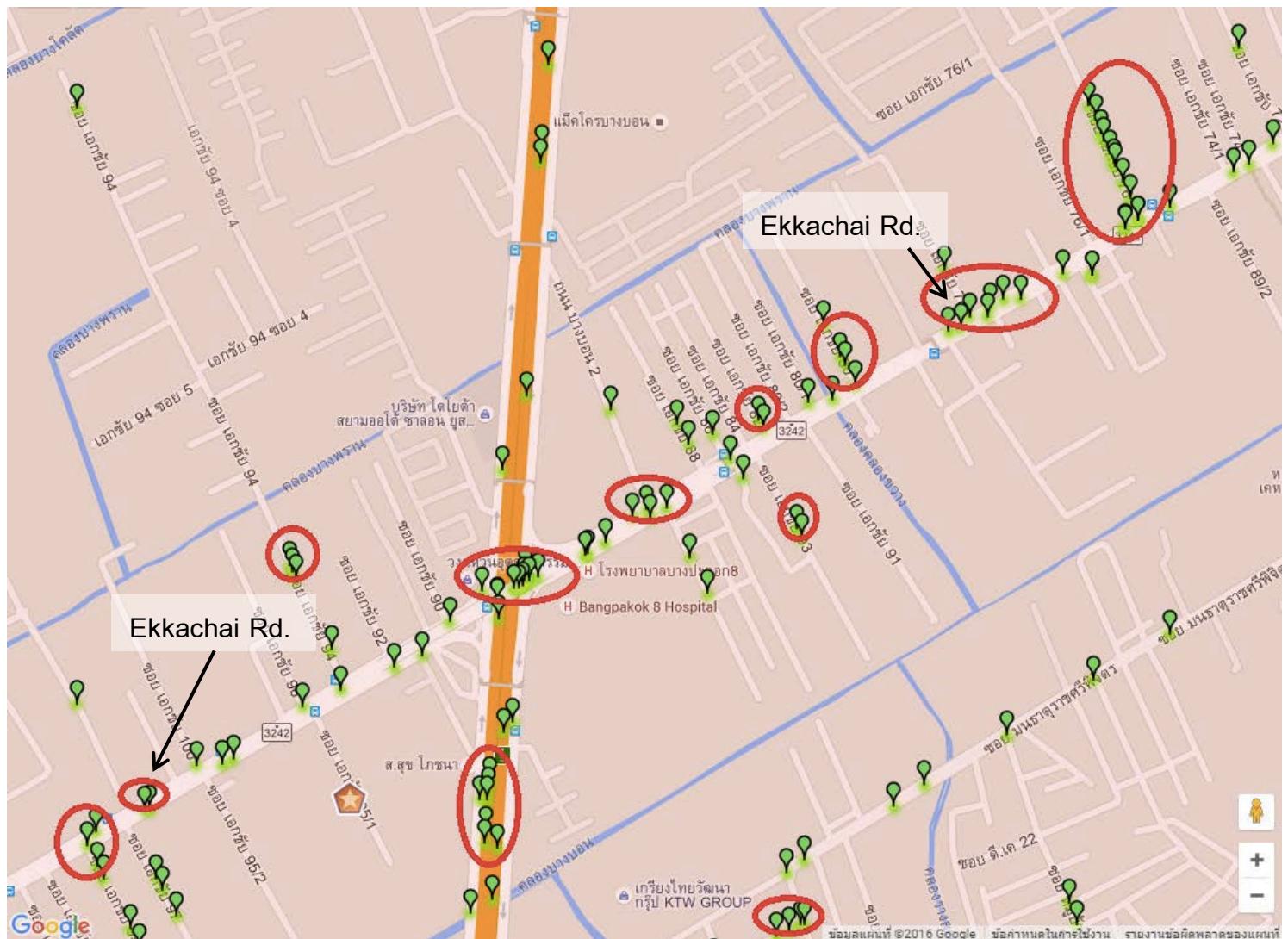
Picture 54: Point of Crash Bangbone District (Specific Areas).



Picture 55: Point of Crash Bangbone District (Specific Areas).



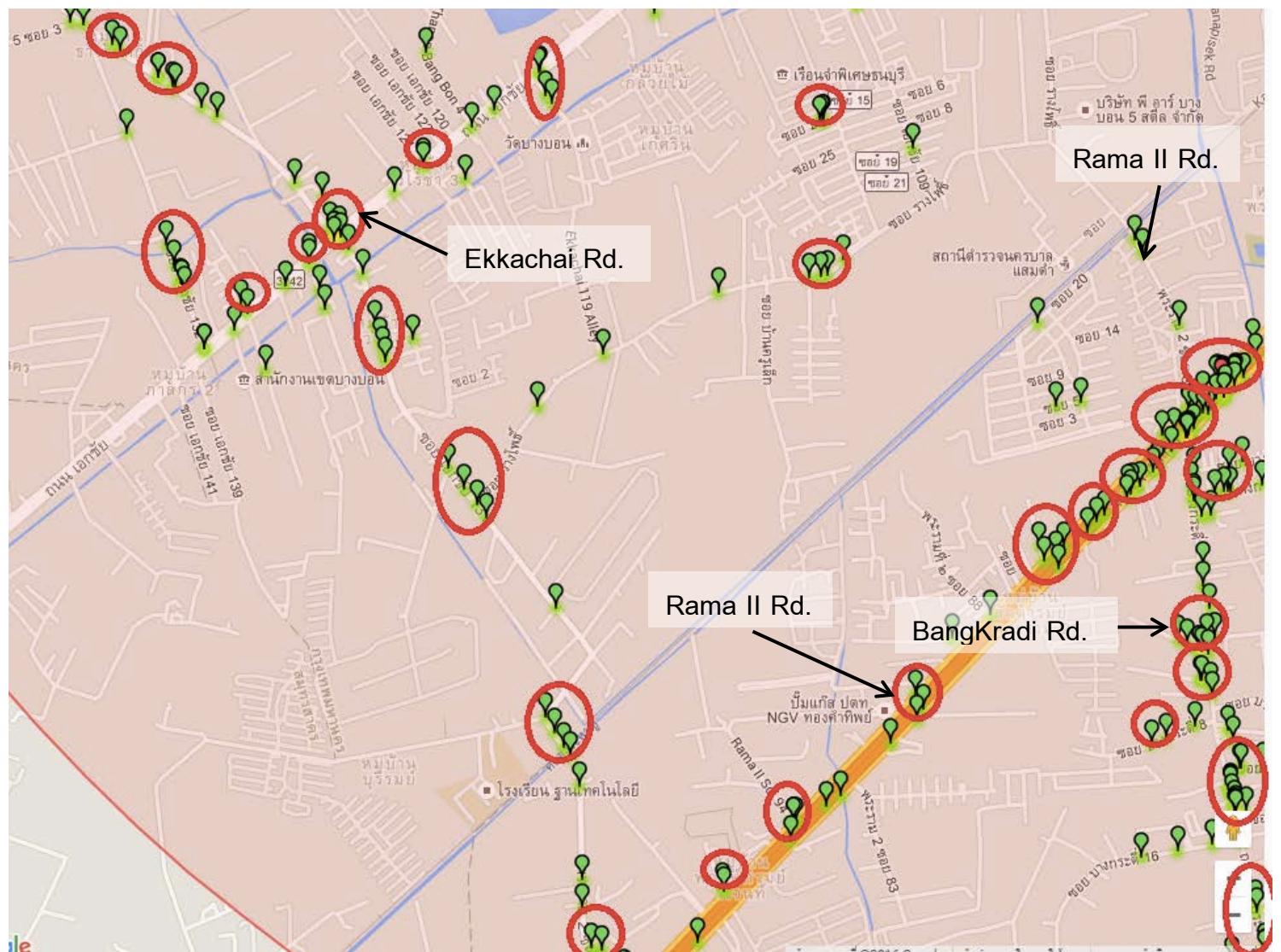
Picture 56: Point of Crash Bangbone District (Specific Areas).



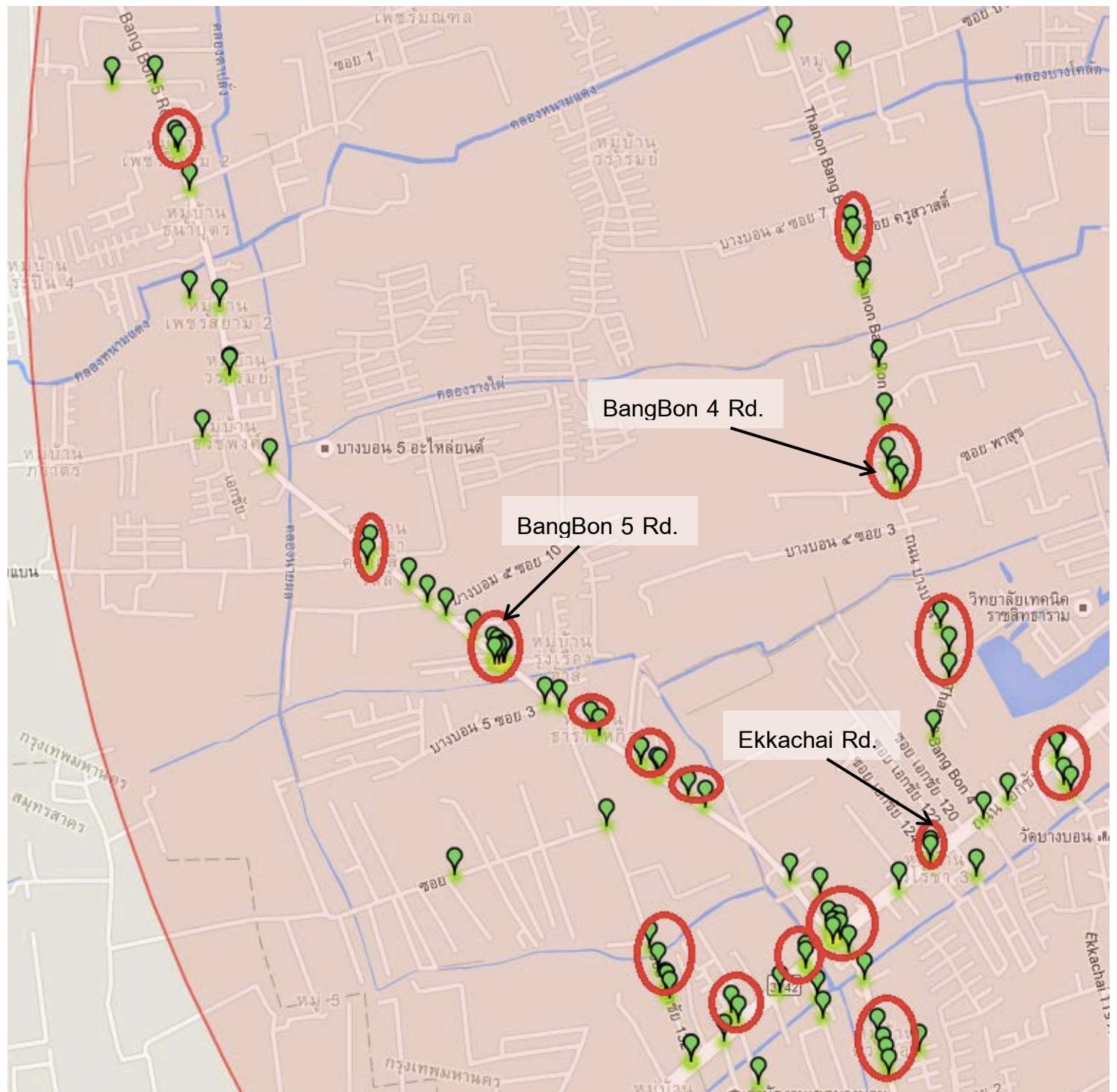
Picture 57: Point of Crash Bangbone District (Specific Areas).



Picture 58: Point of Crash Bangbone District (Specific Areas).

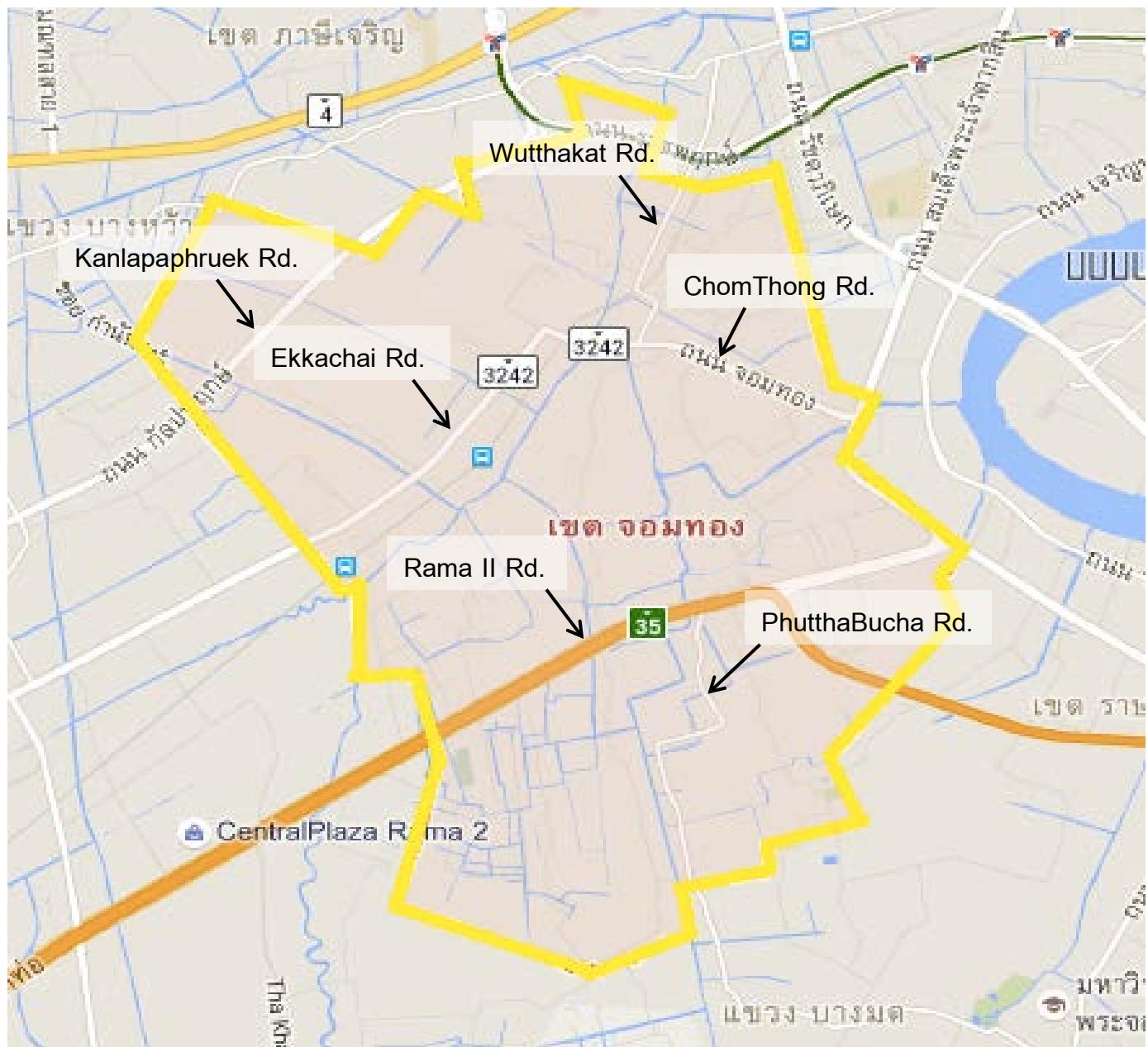


Picture 59: Point of Crash Bangbone District (Specific Areas).



12) Chomthong

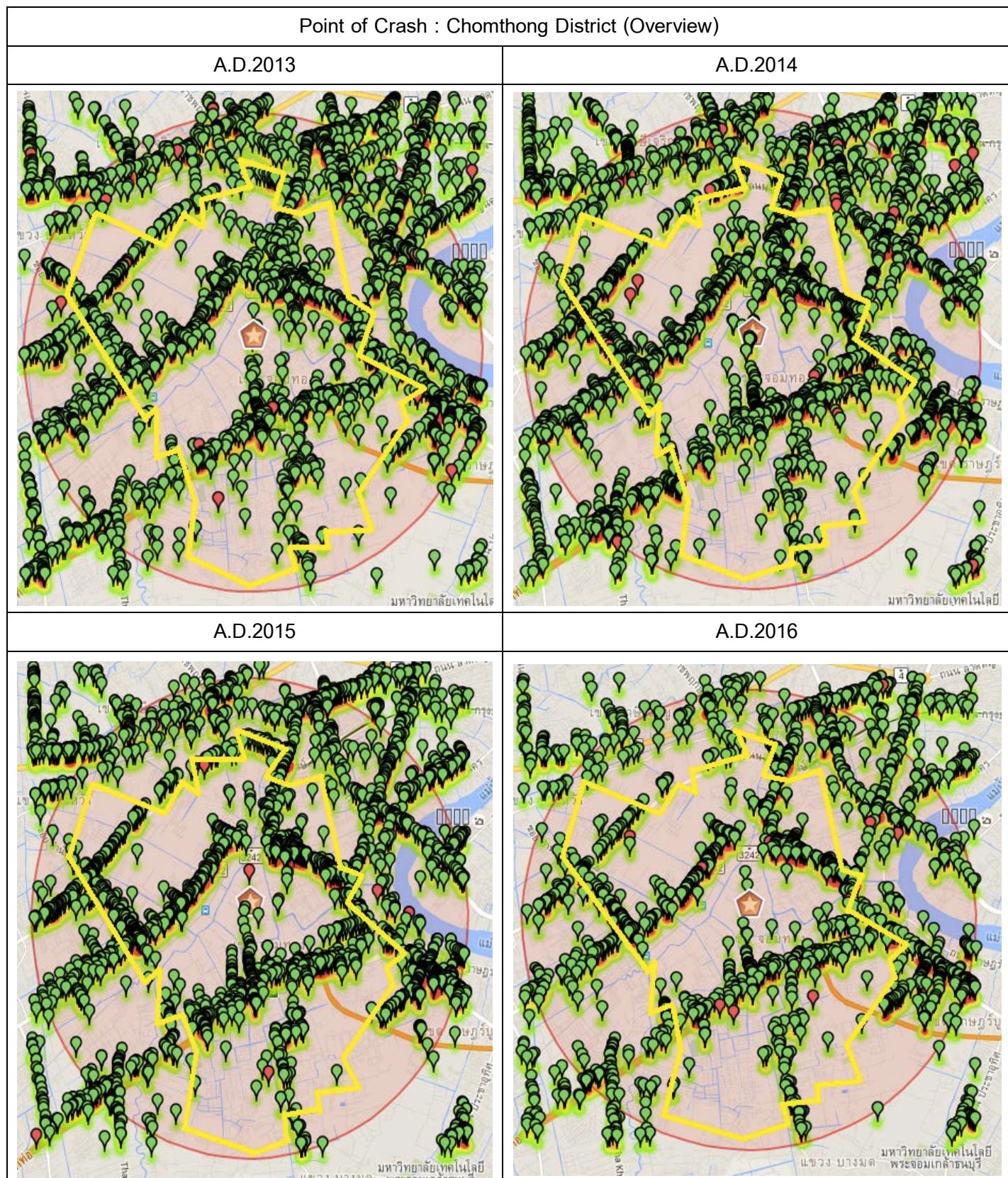
Picture 60: The Main Road of Chomthong District.



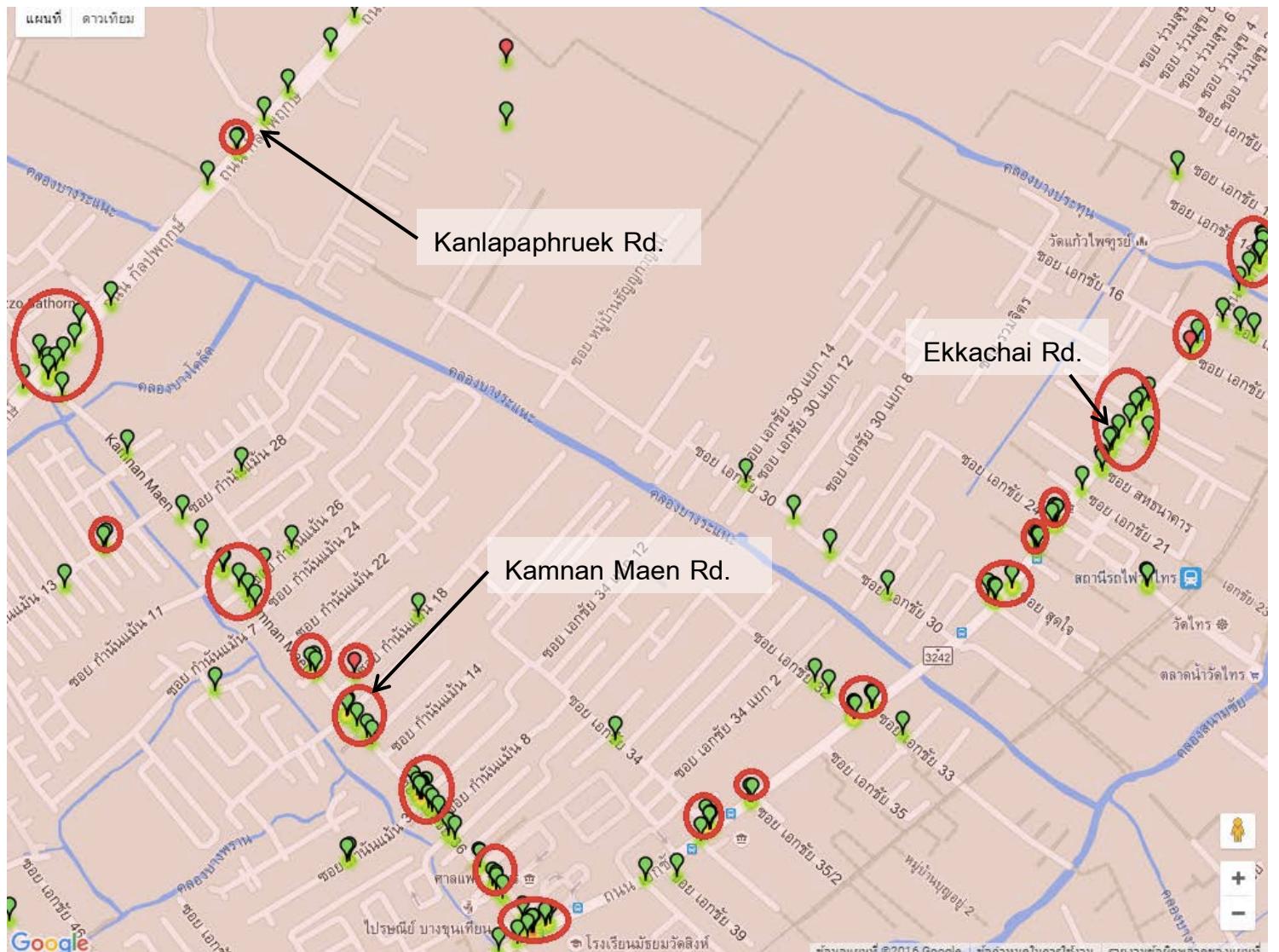
Chomthong district has a main road below.

- 1) Wutthakat Rd. / 2) Kanlapaphruek Rd. / 3) ChomThong Rd. / 4) Ekkachai Rd. / 5) Rama II Rd. / 6) PhuttaBucha Rd.

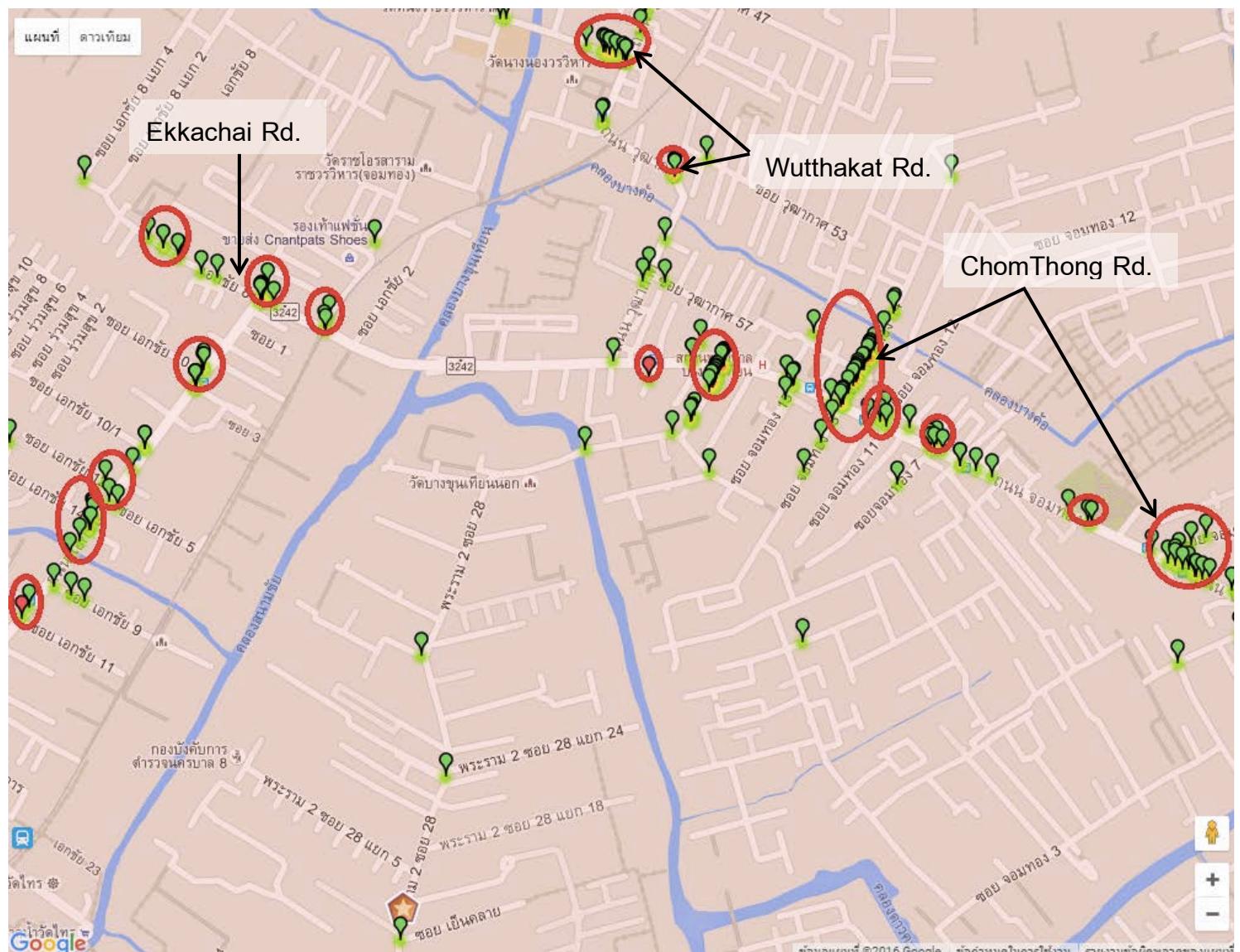
Table 14: Compared overview area of Chomthong district between 2013-2016.



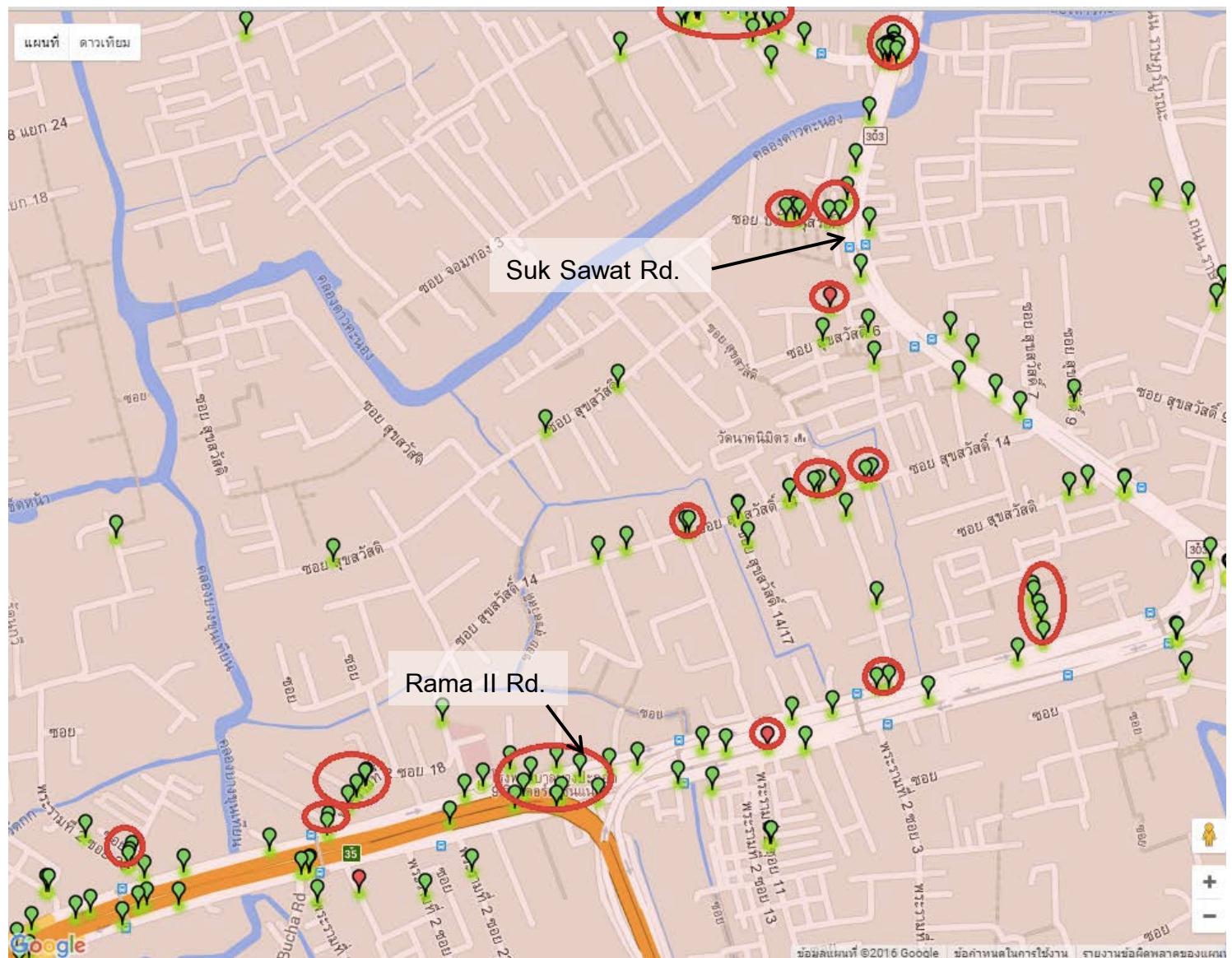
Picture 61: Point of Crash Chomthong District (Specific Areas).



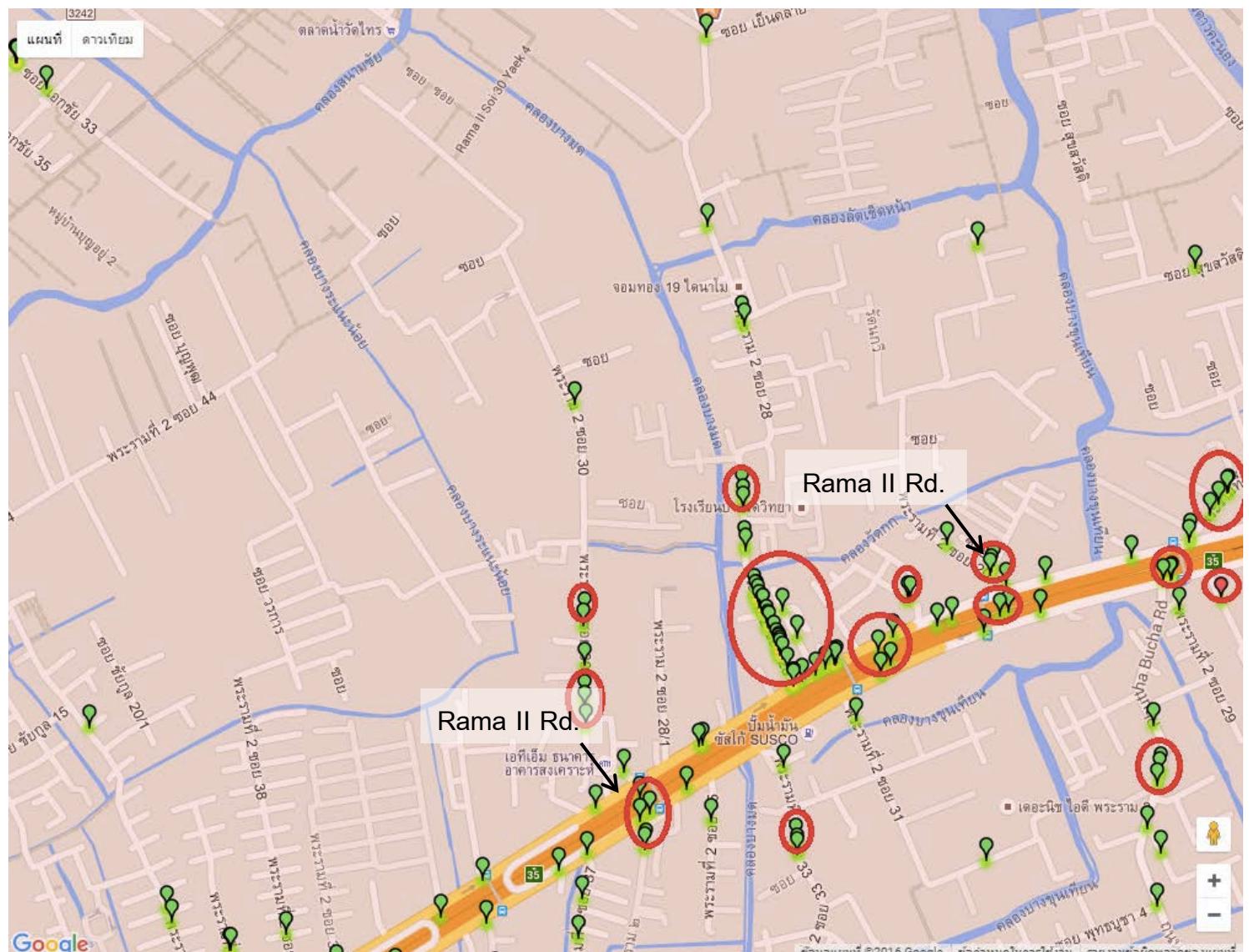
Picture 62: Point of Crash Chomthong District (Specific Areas).



Picture 63: Point of Crash Chomthong District (Specific Areas).



Picture 64: Point of Crash Chomthong District (Specific Areas).



Picture 65: Point of Crash Chomthong District (Specific Areas).

