



**DON'T LET FLOODS SINK YOUR ORGANISATION**  
**Elliot Pittam - Everbridge**





# Everbridge Critical Event Management

## 1. Prepare Better (Access)

Unifies all risk information into a single pane of glass. Show who, what, where is affected.

## 2. Respond Faster (Locate)

Locate first responders and employees/contractors.

## 3. Inform Quicker (Act)

Streamline incident response and communications.

## 4. Recover Faster (Analyze)

Improve future response and mitigate impact.







← → ↻ <https://www.met.gov.my/forecast/weather/state/St008> ☆ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1



PRESS RELEASE
Hujan Berterusan (Bahaya) 4.45am
30 Disember 2021 - Weak earthquake near Tarakan, Indonesia at 2.09am -
30 December 2021 -Strong Earthquake in Banda Sea at 2.25am

[Main](#) [Corporate Profile](#) [Forecast](#) [Earthquake](#) [Observation](#) [Climate](#) [Publication](#) [Education](#) [Contact Us](#)

Utama / Ramalan / Cuaca Utama / Negeri

## Weather Forecast for States

Choose : Selangor

Date	Weather	Forecast
31/12/2021 Friday	 Scattered thunderstorms	<b>Morning:</b> Isolated rain <b>Afternoon:</b> Scattered thunderstorms <b>Night:</b> Isolated rain <b>Min:</b> 23° <b>Max:</b> 32°
01/01/2022 Saturday	 Scattered thunderstorms	<b>Morning:</b> No rain <b>Afternoon:</b> Scattered thunderstorms <b>Night:</b> Scattered rain <b>Min:</b> 23°

[← Ramalan Cuaca Negeri](#)

## Ramalan Cuaca Daerah

## Ramalan Cuaca Bandar

## Ramalan Cuaca Pusat Peranginan

Perairan

## Perkapalan



# Dam Water Levels

[←](#)
[→](#)
[↺](#)
<https://iwrimsluas.gov.my/main.cfm?lang=2>

# IWRIMS

INTEGRATED WATER RESOURCES INFORMATION MANAGEMENT SYSTEM

LEMBAGA URUS  
AIR SELANGOR (LUAS)

HOME

ABOUT US ▾

DATA ENTRY ▾

REPORT ▾

MANAGEMENT ▾

Pilihan Peta:

Esri Topo Map ▾

+

Home

-

DAM INFORMATION						
	DATE/TIME	STATION	WATER LEVEL (m MSL)	STORAGE		RAINFALL (mm) **
				Mm <sup>3</sup>	%	
NEW →	31-12-2021 09:00 AM	BATU	102.85	32.29	101.03	0.00
NEW →	31-12-2021 10:01 AM	SEMENYIH	111.06	59.30	100.38	0.00
NEW →	31-12-2021 10:00 AM	LANGAT	221.10	34.10	100.00	0.00
NEW →	31-12-2021 09:00 AM	KLANG GATES	95.30	25.34	100.00	15.00
NEW →	31-12-2021 10:00 AM	SG SELANGOR	220.18	230.00	100.00	0.00
NEW →	31-12-2021 10:00 AM	TASIK SUBANG	38.61	4.21	100.00	0.00
NEW →	31-12-2021 09:00 AM	KOLAM TAKUNGAN SG. LABU (ORS)	44.90	9.26	99.62	0.00
NEW →	31-12-2021 09:00 AM	SG TINGGI	59.59	115.19	100.60	0.00

\*\* Refers to yesterday's data

Leaflet | Powered by Esri | USGS, NOAA

## WATER LEVEL AND RAINFALL STATION INFORMATION - BARRAGE BESTARI JAYA

DATE/TIME	WATER LEVEL (m)	RESIDUAL FLOW (Mld)	RAINFALL (mm)
31-12-2021 10:00 AM	4.11	3,080.06	0.00

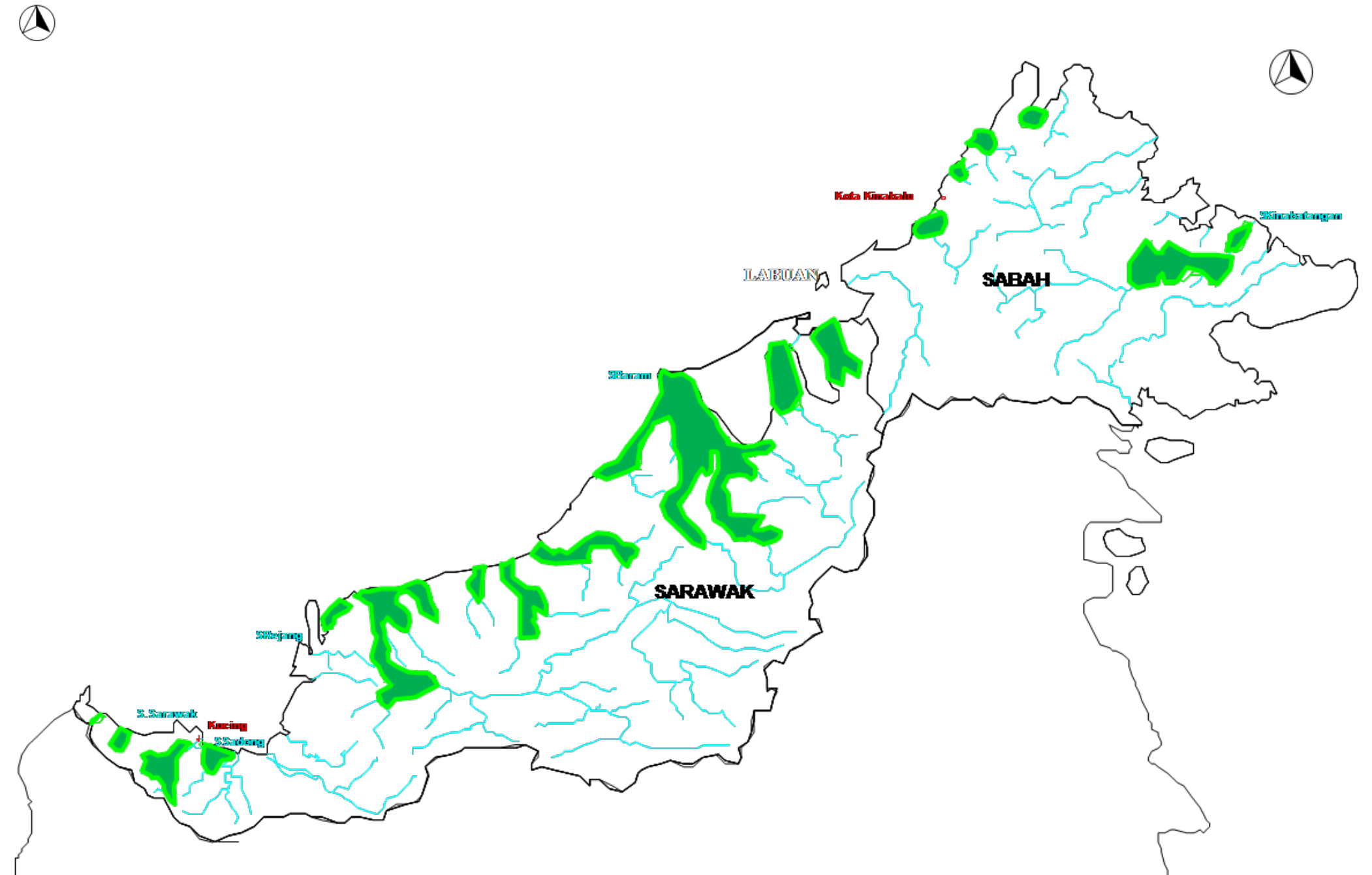
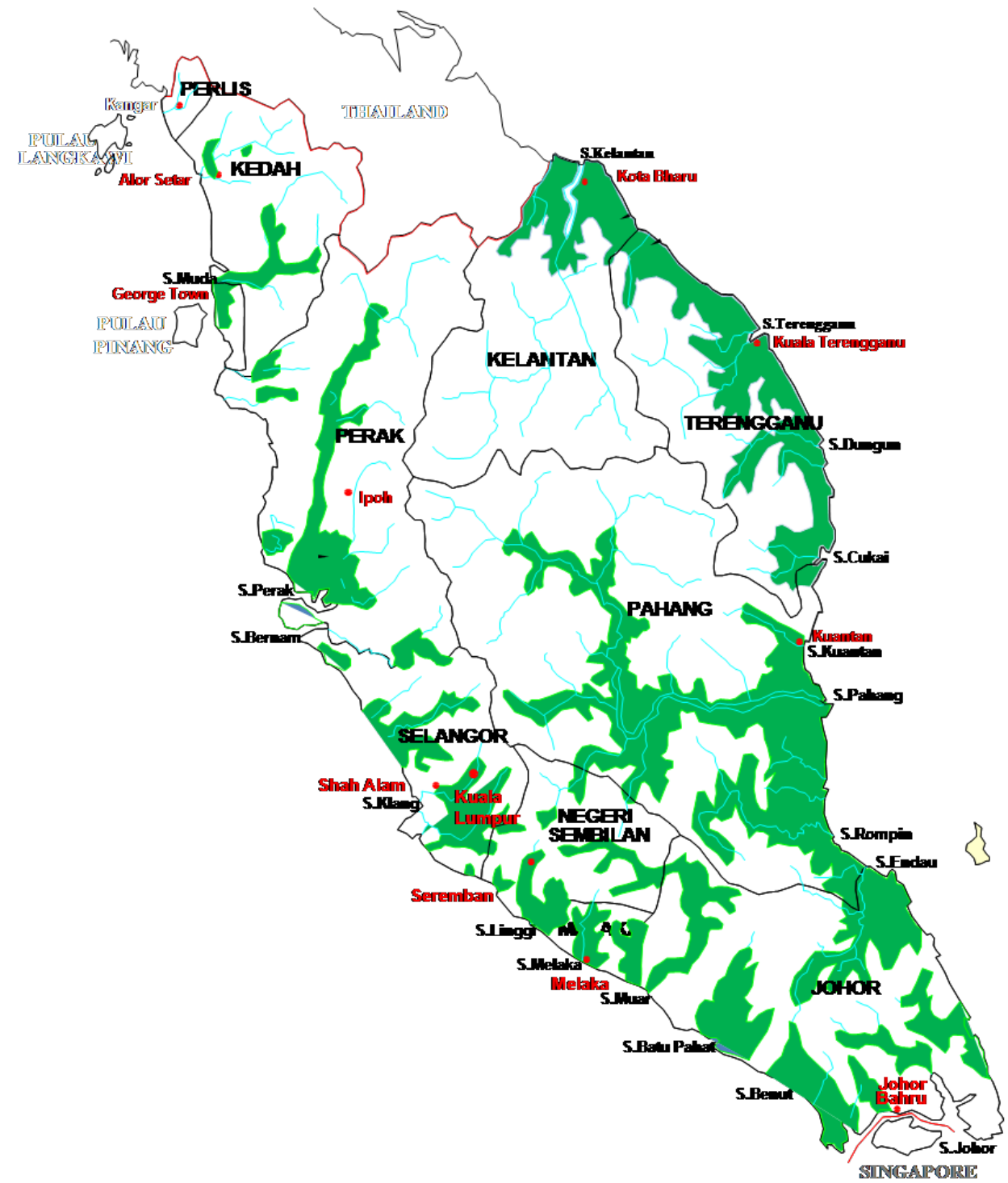




Notifikasi Aras Air dan Hujan Terkini		
Stesen	Aras Air (m)	Hujan (mm)
NEGERI: KELANTAN		
Kg. Temangan, Machang	Aras air 19.86m telah melebihi tahap BAHAYA (17.5m) sebanyak 2.36m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 0mm (Tarikh: 31/12/2021 11:00)
Sg. Golok di Kg. Jenob, Tanah Merah	Aras air 23.53m telah melebihi tahap BAHAYA (23.5m) sebanyak 0.03m Trend: Menaik (Tarikh: 31/12/2021 10:00)	Hujan: 0mm (Tarikh: 31/12/2021 10:00)
Sg. Kelantan di Kuala Krai, Kuala Krai	Aras air 24.9m telah melebihi tahap AMARAN (22.5m) sebanyak 2.4m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 0mm (Tarikh: 31/12/2021 11:00)
Sg. Kelantan di Kusial, Tanah Merah	Aras air 14.49m telah melebihi tahap AMARAN (14m) sebanyak 0.49m Trend: Menaik (Tarikh: 31/12/2021 10:00)	Hujan: 0mm (Tarikh: 31/12/2021 10:00)
Sg. Galas di Limau Kasturi, Gua Musang	Aras air 58.69m telah melebihi tahap WASPADA (56m) sebanyak 2.69m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 1mm berada pada tahap Renyai (Tarikh: 31/12/2021 11:00)
Sg. Lebir di Kuala Koh, Gua Musang	Aras air 69.5m telah melebihi tahap WASPADA (67m) sebanyak 2.5m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 3mm berada pada tahap Renyai (Tarikh: 31/12/2021 11:00)
Rantau Panjang, Pasir Mas	Aras air 7.9m telah melebihi tahap WASPADA (7m) sebanyak 0.9m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 0mm (Tarikh: 31/12/2021 11:00)
Kg. Karangan, Kuala Krai	Aras air 30.93m telah melebihi tahap WASPADA (27m) sebanyak 3.93m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Tiada stesen hujan.
Sg. Golok di Rantau Panjang, Pasir Mas	Aras air 7.94m telah melebihi tahap WASPADA (7.2m) sebanyak 0.74m Trend: Menaik (Tarikh: 31/12/2021 11:00)	Hujan: 0mm (Tarikh: 31/12/2021 10:15)

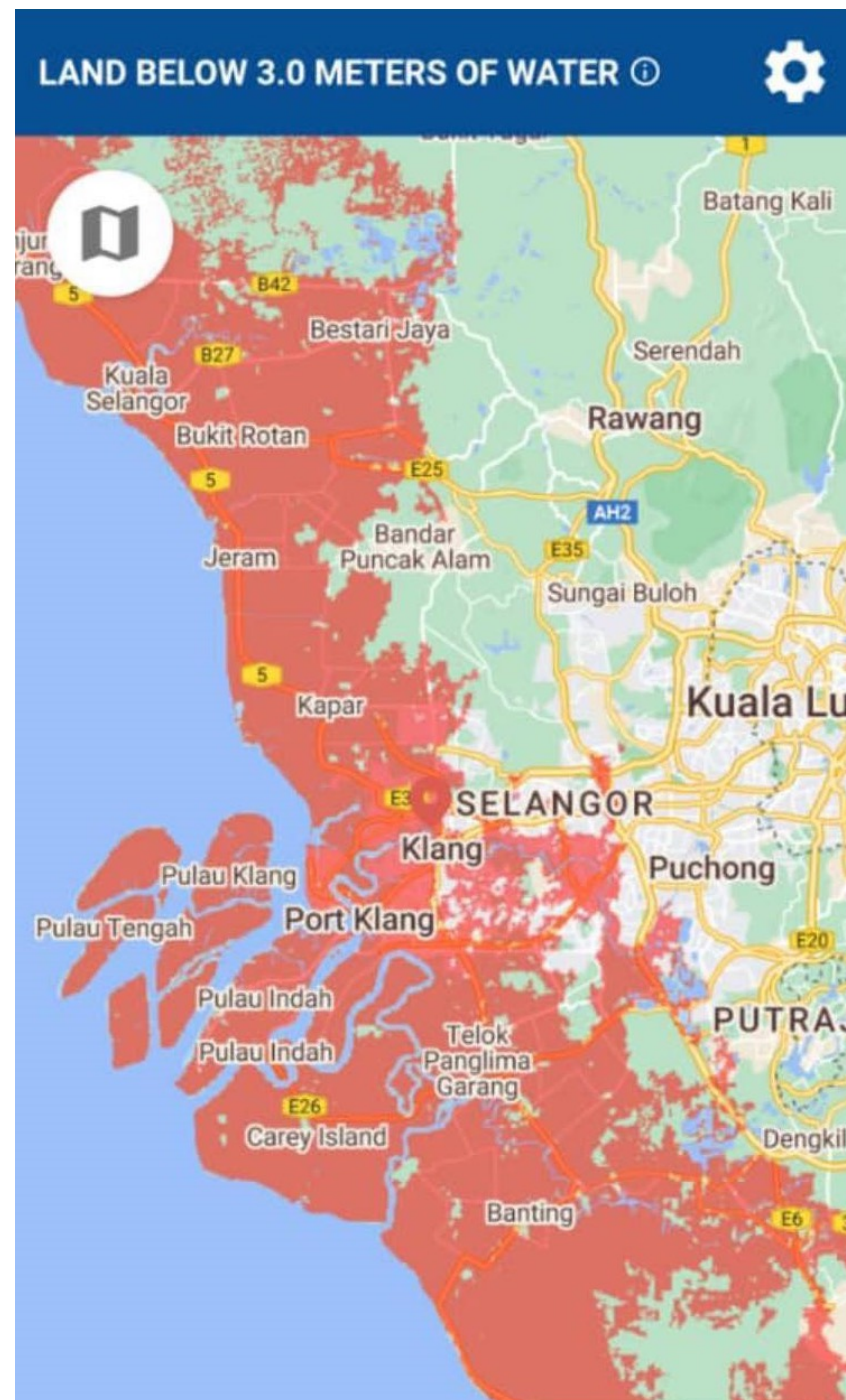


# Flood Prone Areas





# Flood Prone Areas - Selangor



## KAWASAN BERISIKO BANJIR & BANJIR KILAT SELANGOR 2022

### Klang & Petaling

Sumber: JPS Selangor

#### Klang

- Jln Othman Utama
- Jln Yadi Kg Delek
- Kg Bukit Naga
- Kg Hamid Tuah, Telok Gong
- Kg Jalan Kebun
- Kg Johan Setia
- Kilang Jln Prajurit, Telok Gong
- Sg Daun, Pulau Indah
- Tmn Kem Sg Keladi
- Tmn Sri Muda, Klang

#### Petaling

- Anak Sg Pati Liat, KM2.7 Besraya
- Kg Baru HICOM
- Kg Melayu Subang
- Kg Paya Jaras
- Route 54 Jln Kuala Selangor

Monsun Timur Laut dijangka landa negeri  
mulai November hingga Disember 2022.

## KAWASAN BERISIKO BANJIR & BANJIR KILAT SELANGOR 2022

### Sepang & Kuala Langat

Sumber: JPS Selangor

#### Sepang

- Kg Ampar Tenang
- Kg Batu 31, Jln Banting-Dengkil
- Kg Cemperai, Dengkil
- Kg Dato' Abu Bakar Baginda
- Kg Lalang
- Kg Org Asli Bt 28, Jenderam Hilir
- Kg Org Asli Bkt Tampoi Seberang
- Kg Org Asli Sg Melut
- Kg Seri Tanjung
- PUSPEN Dengkil
- Tmn Baiduri, Dengkil
- Tmn Delima, Dengkil
- Tmn Kristal, Dengkil
- Tmn Mas Puchong

#### Kuala Langat

- Jln Bandar Lama
- Jln Perak Kiri, Bukit Changgang
- Jln Perepat, Tmn Dato Hormat
- Jln Punai, Kebun Baru
- Jln Tembaga Kiri, Bkt Changgang
- Kg Orang Asli Kelanang, Morib
- Kg Sijangkang
- Kg Sg Nangka, Banting
- Tmn Seri Jaromas

Monsun Timur Laut dijangka landa negeri  
mulai November hingga Disember 2022.

## KAWASAN BERISIKO BANJIR & BANJIR KILAT SELANGOR 2022

### Gombak & Hulu Langat

Sumber: JPS Selangor

#### Gombak

- Kawasan Industri SB Jaya
- Kawasan Industri Sg Bakau
- Kg Lee Kim Sai Rawang
- Kg Melayu Batu 16 Rawang
- Kg Melayu Sri Kundang
- Kg Orang Asli Sg Buloh
- Kg Sg Bakau
- Lorong Serai 14 Kuang
- Pekan Rawang Jln Maxwell
- Persimpangan Bukit Botak
- Persimpangan Jln Chengal
- Sekitar Pekan Batu Arang
- Sekitar Pusat Kusta
- Selayang Baru
- Tmn Rahmat Jaya 3 Kuang

#### Hulu Langat

- FELCRA Kg Sg Semungkis
- Kg Bangi Lama
- Kg Batu 10 Jln Cheras
- Kg Desa Mahkota, Beranang
- Kg Rinching Hulu
- Kg Seri Taman Baru
- Kg Sg Gahal, Batu 14
- Kg Sg Kantan
- Kg Sg Lui (Bt 20-23)
- Kg Sg Raya Batu 9, Cheras
- Kg Tasik Permai, Ampang
- Tmn Bangi, Kajang
- Tmn Desa Kerinchi
- Tmn Desa Seroja, Kajang
- Tmn Hijau, Kajang
- Tmn Hulu Langat Jaya
- Tmn Mahkota

Monsun Timur Laut dijangka landa negeri  
mulai November hingga Disember 2022.

## KAWASAN BERISIKO BANJIR & BANJIR KILAT SELANGOR 2022

### Sabak Bernam, Kuala Selangor & Hulu Selangor

Sumber: JPS Selangor

#### Sabak Bernam

- Kg Nelayan Sg Besar
- Kg Penerangan Sekinchan
- Taman Sekinchan Jaya

#### Hulu Selangor

- Kg Air Panas
- Kg Genting Malek
- Kg Jawa
- Kg Orang Asli Sungai Jang
- Kg Pasir
- Tmn Serendah Makmur

#### Kuala Selangor

- Kg Bukit Hijau
- Kg Bukit Kuching
- Kg Ijok Jln Robinson
- Kg Merbau Indah
- Kg Rantau Panjang
- Kg Seri Aman
- Kg Seri Sentosa
- Pekan Sg Buloh Jeram

Monsun Timur Laut dijangka landa negeri  
mulai November hingga Disember 2022.





For example:  
**Flooding**



# Case Study



- + Meteorological Department issues warning that Tropical Depression 29W will hit Peninsular Malaysia for several days and cause severe flooding in flood prone areas affecting outages in power, telco & radio. Road accessibility will be affected.



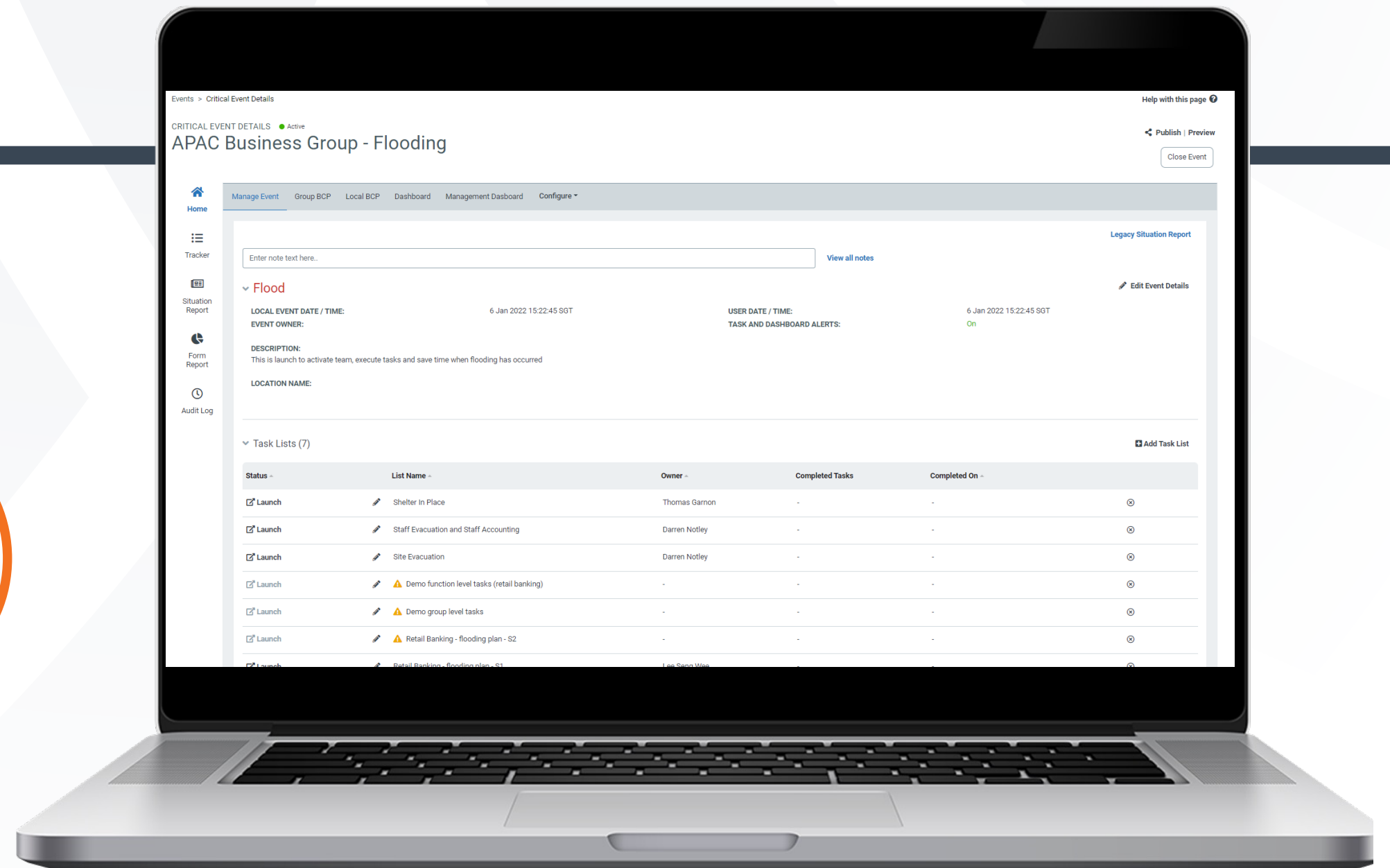


# Quickly Launch The Right Response Plan



Crisis Coordinator launches the **‘Flood’ Critical Event Template** with associated:

- + Task Lists
- + Incident Communications
- + Documents





# Task List & Incident Communications



- + **Employees notified** via Everbridge Mass Notification.
- + **ALL safety and rescue teams/responders are notified to mobilize in advance in preparation, deploying flood diversion, inflatable flood barriers, water pumps, etc**

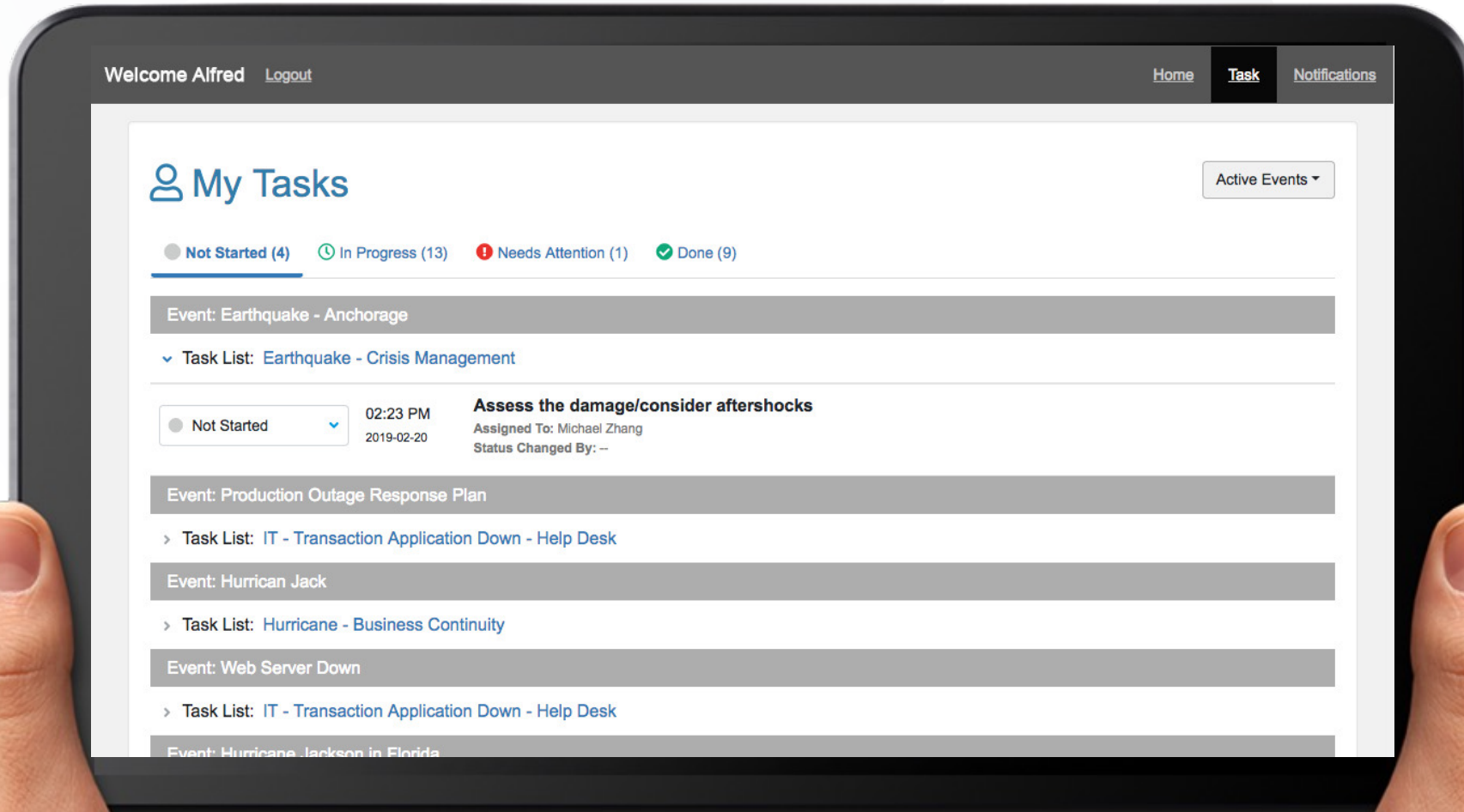
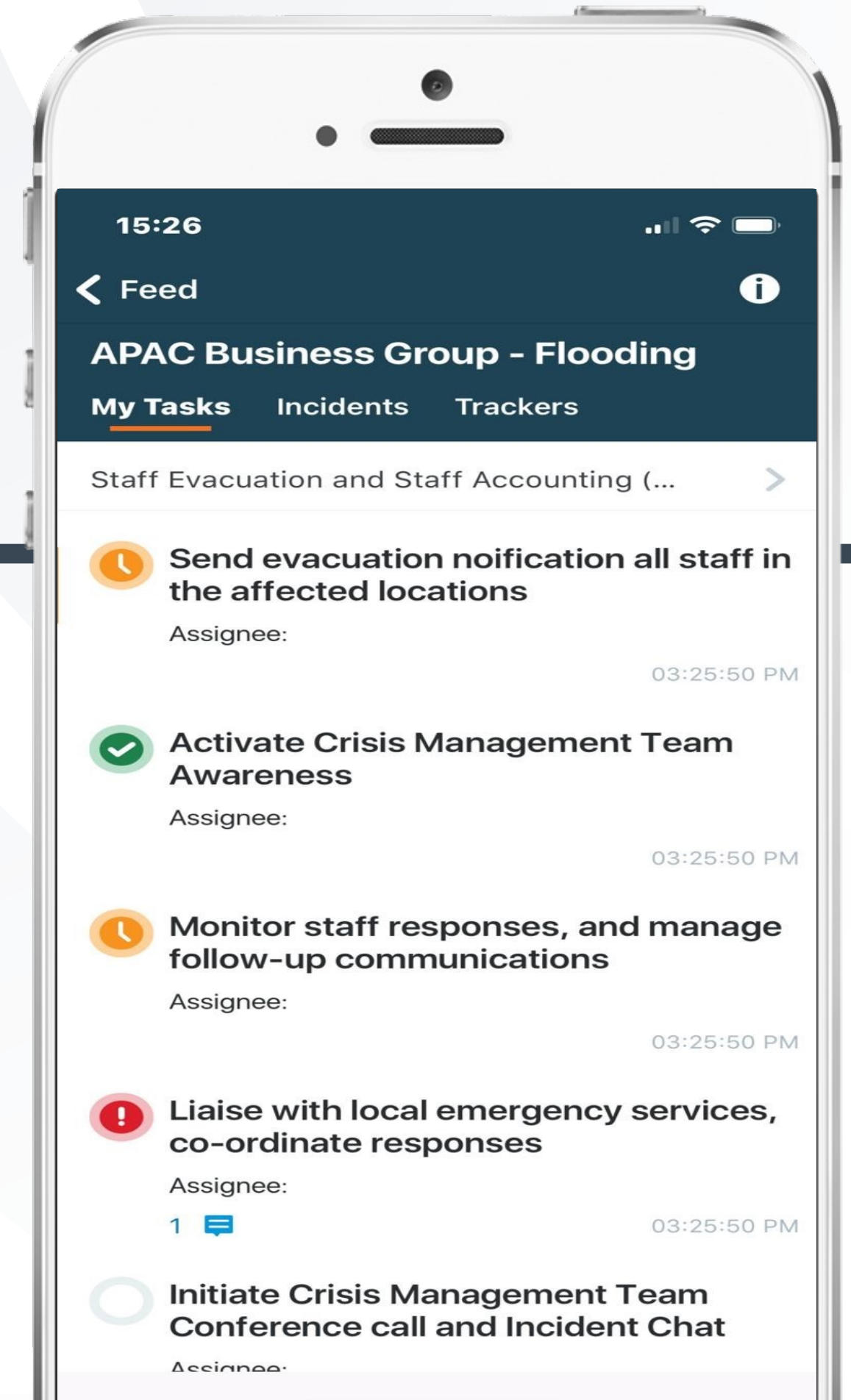




# Ensure Responders Know What To Do



- + ALL responders across ALL departments and regions are notified of the tasks they need to complete
- + Responders can add comments and photos for more context

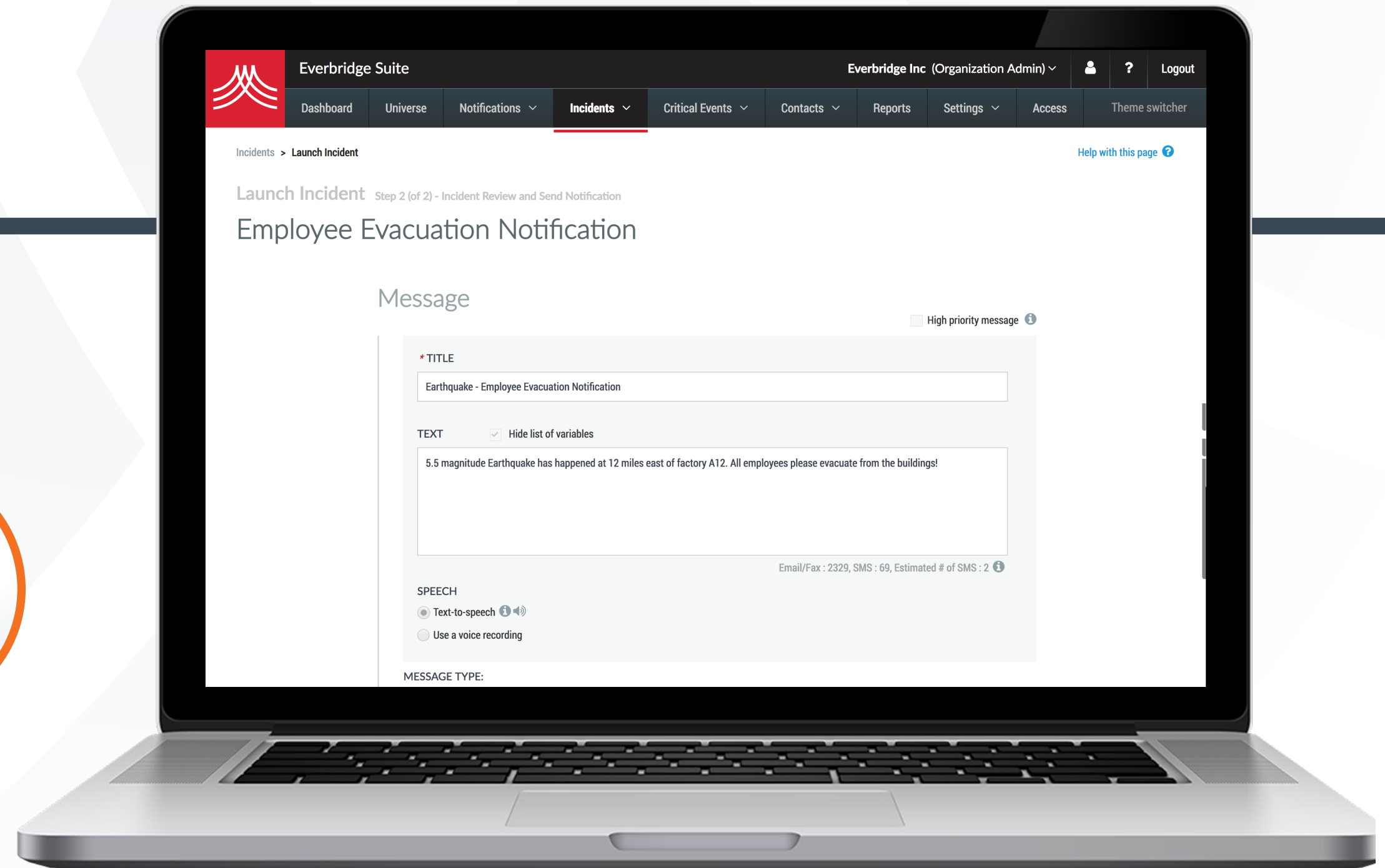




# Communicate Effectively



- + **Evacuation communication** is launched when required based on rising water level sensors, providing clear instructions on **what to do** and **where to go**

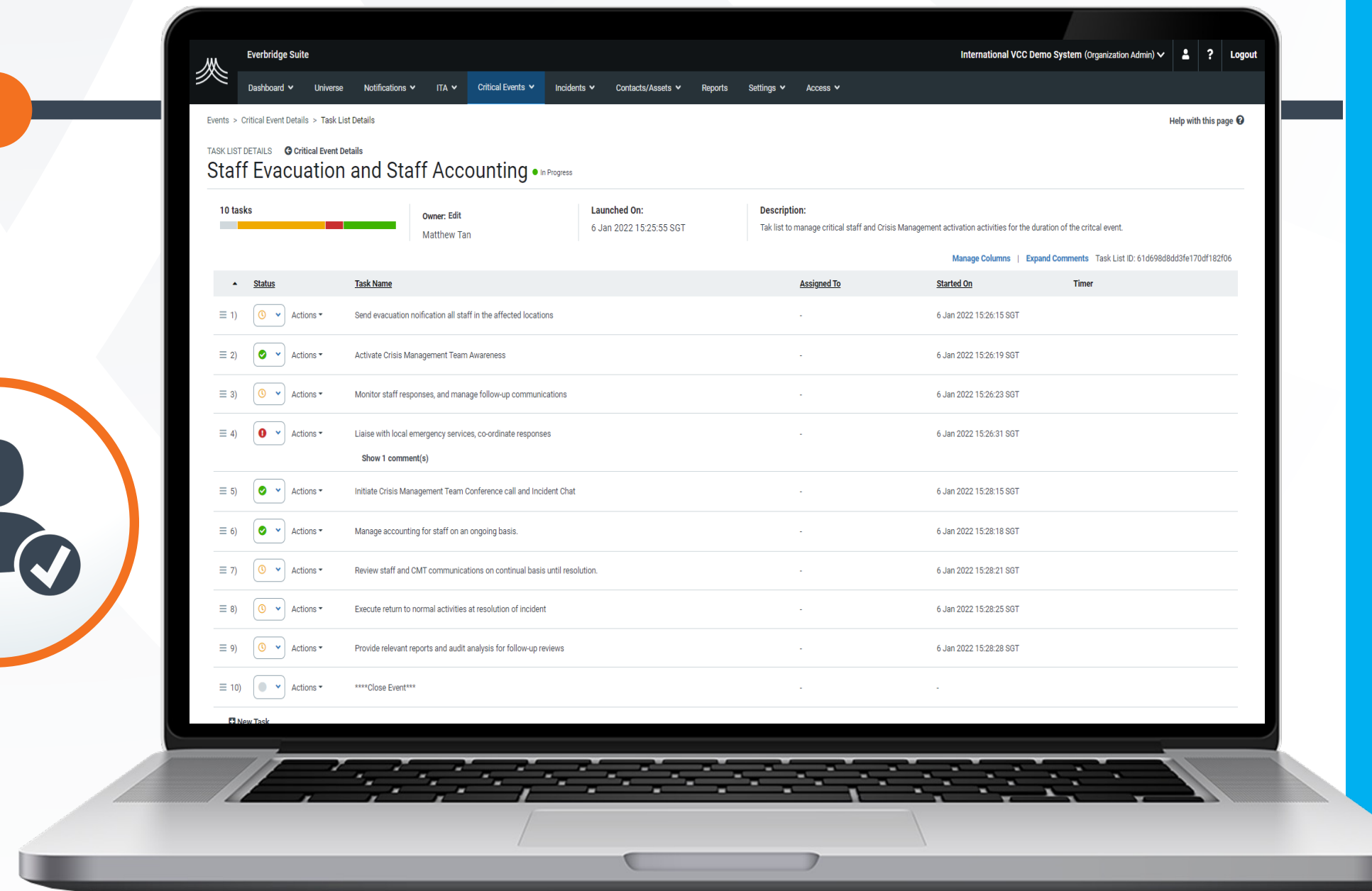
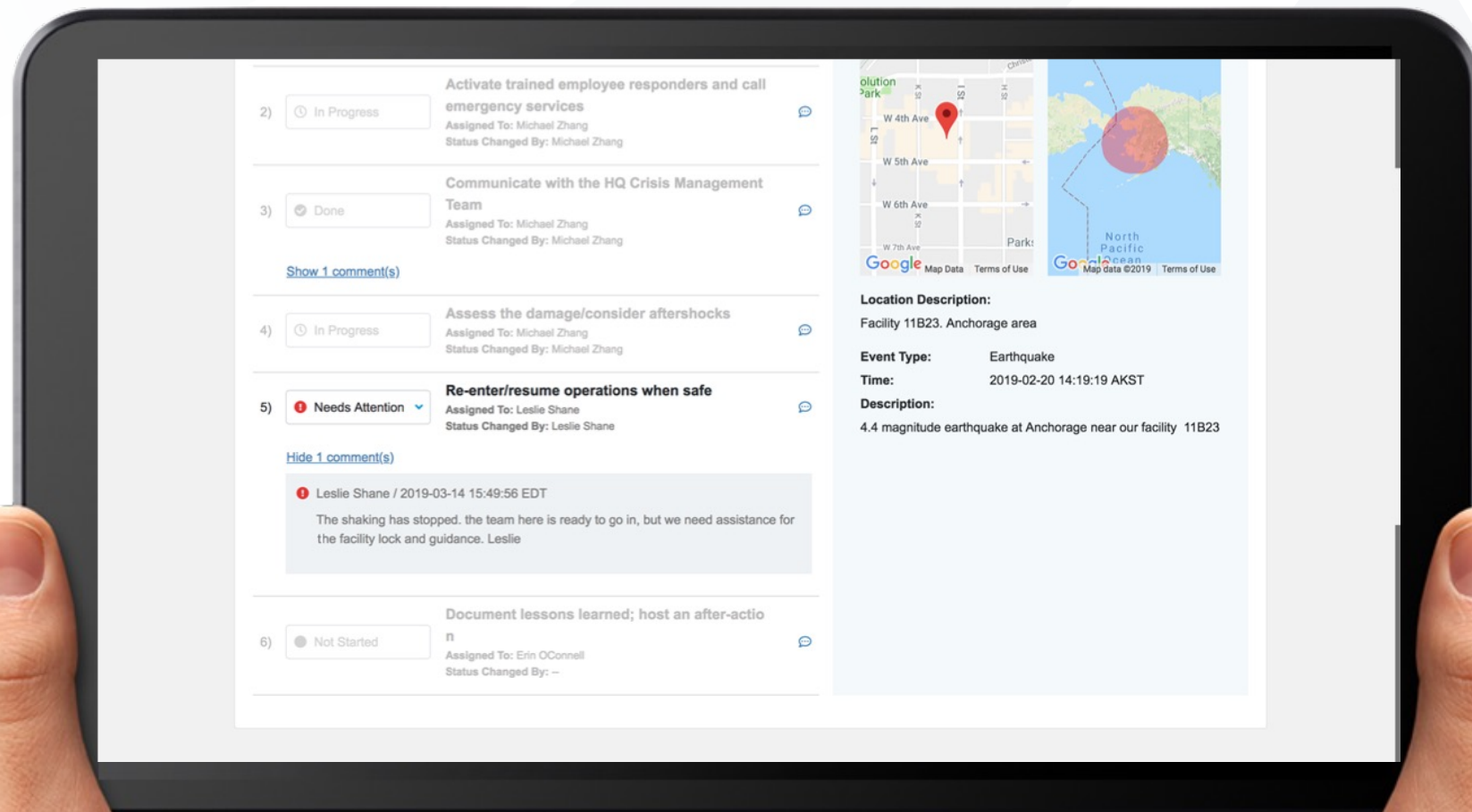




# Easily Address Situational Changes



- + Extensive flooding resulted in numerous **flood casualties** and field team **requests for medical assistance**
- + **Crisis Coordinator assigns healthcare team** to assist and communicates with field team

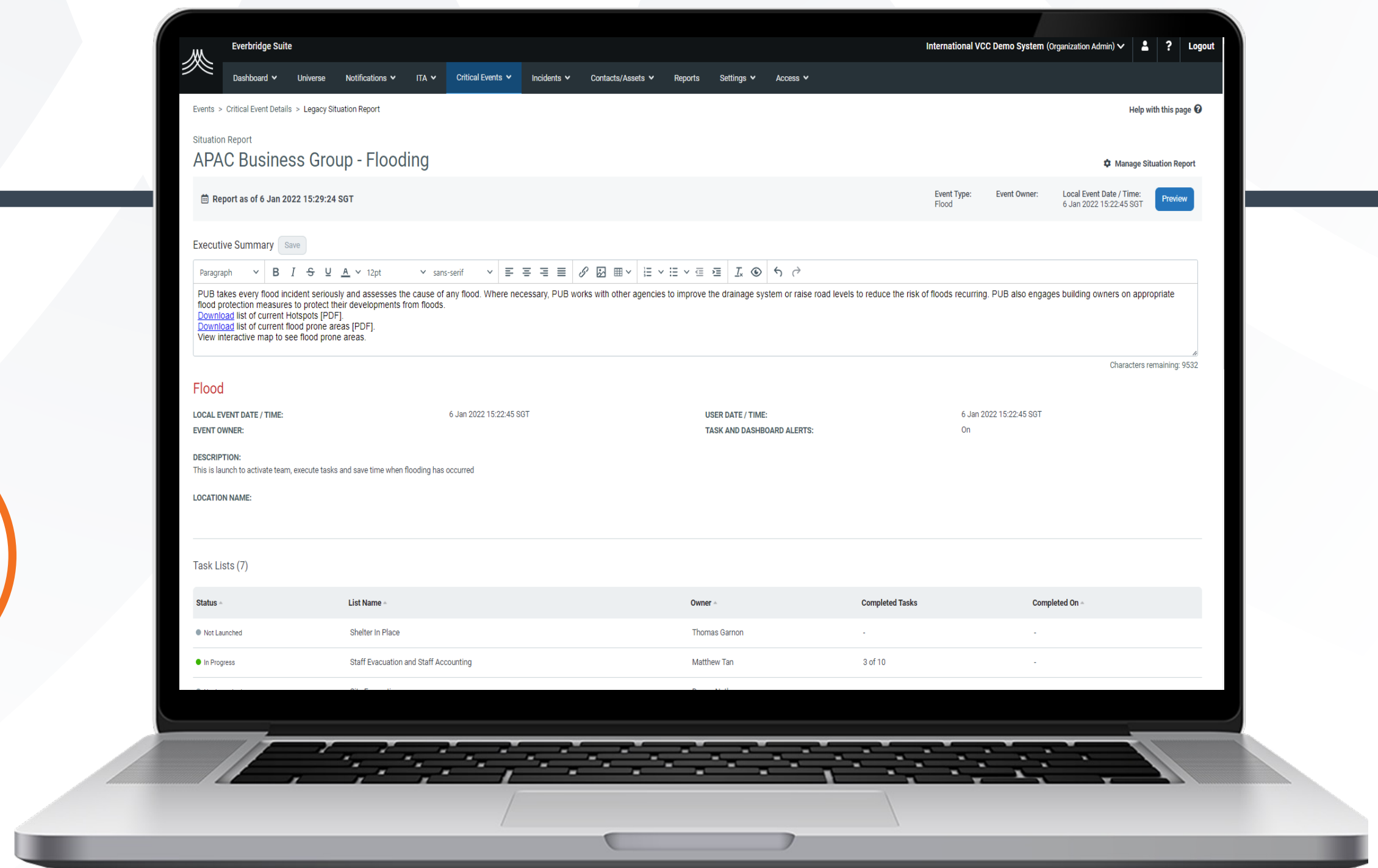




# Keep Stakeholders Informed



- + All activity is logged and available in real time
- + All details are available in the situation report





# Case Study



- + Meteorological Department issues warning Tropical Depression 29W will hit Peninsular Malaysia and cause **severe flooding** in flood prone areas affecting outages in power, telco & radio. Road accessibility will be affected..



- + **Employees notified** via Everbridge Mass Notification system.
- + **ALL safety and rescue teams are notified to mobilize in advance in preparation, deploy flood diversion, activate flood gates, deploy inflatable flood barriers etc.**



- + Extensive flooding resulted in numerous flood casualties and field team requests for medical assistance
- + Crisis Coordinator assigns healthcare team to assist and communicates with field team



Crisis Coordinator launches the 'Flood' Critical Event Template with associated:

- + **Task Lists**
- + **Incident Communications**
- + Documents



- + **ALL responders across ALL departments and regions are notified of the tasks** they need to complete
- + **Responders can add comments and photos for more context**
- + **Evacuation communication** is launched when required based on rising water level sensors, providing clear instructions on **what to do** and **where to go**



- + All activity is logged and available in real time
- + All details available in situation report



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# Demonstration



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# Questions



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# Thank You