



Healthcare & Public Health  
Sector Coordinating Councils

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**PUBLIC PRIVATE PARTNERSHIP**

# **HSCC Cybersecurity Working Group**

## **2020 Annual Report**

# Chairman's Forward



**Terry Rice**

Industry Co-Chair  
HSCC Joint  
Cybersecurity  
Working Group

The pandemic of 2020 caused a historic global health crisis that canceled or re-directed our personal, business, social and national priorities. It intensified our cybersecurity challenges. Forced teleworking, an exponential rush to virtual care, increasing data interoperability and connected medical technology all widened the attack surface for adversaries. We experienced a steady stream of ransomware attacks against health providers during COVID patient surges and COVID-themed phishing lures to prey on the public's fear to perpetrate scams. Even as the healthcare cybersecurity community remained focused on executing the objectives we laid out at the beginning of the year, we rose up to address those added COVID challenges threatening the security and resiliency of a healthcare infrastructure under stress.

In 2020 we added 55 organizations to the membership; published six guidance documents in 2020 for the benefit of the entire sector, including tactical crisis response and COVID teleworking and return-to-work strategies; expanded knowledge sharing across a wide range of cyber policy and practice disciplines; and maintained a regular tempo of coordination sessions with our government partners.

But even as we met our objectives while responding to existential COVID emergencies, we're still under constant threat. The SolarWinds attack – one of the worst in cyber history - is just another reminder that the attacks get worse and increase in scalability.

How will we more effectively mount a collective effort to defend the sector against crippling cyber attacks that impact patient safety and data, clinical and manufacturing operations and public health research? First, we must reflexively do a better job of raising awareness and urging implementation of our publications. Then measure progress. Our expanding network of industry members, government partners and supporting stakeholders is key to amplifying and advocating that message of security. To supplement the effort, we continue to encourage healthcare entities to use the "Cyber Hygiene (CyHy)" scanning and assessment services provided free by the U.S. Department of Homeland Security. At least 230 healthcare entities – half of them hospitals – have leveraged CyHy, and we will work to double that number in 2021.

We will continue to link our tactical work plan to the major imperatives articulated in the 2017 [Health Care Industry Cybersecurity Task Force Report](#). The success of that strategy depends in part on working with the new Administration to renew and accelerate our partnership with HHS, FDA, DHS and others. We also must operationalize lessons learned from COVID; refine policy and regulatory incentives for security investment and collective action; and update our playbook for threat sharing and incident response coordination between the health sector and government.

With these initiatives, I am confident that 2021 will be the year that crystallizes and accelerates our collective efforts. Thanks to everyone who stayed on point and on guard during our national crisis. Even as the fog of COVID war begins to lift, the battles of cybersecurity rage on. All hands on deck!

# HEALTHCARE SECTOR COORDINATING COUNCIL CYBERSECURITY WORKING GROUP

## Membership and Governance

## Since January 2020

- **Increase of 55, from 221 to 276 voting organizational members**
- **44 non-voting Advisor companies**
- **Industry association members increase from 38 to 40**
- **Government organizations include 9 federal agencies, 2 state agencies, 2 city agencies, and 2 Canadian**
- **Total representing personnel: 626**

# 2020 Subsector Distribution

- Direct Patient Care: **40.1%**
- Health Information Technology: **9.8%**
- Health Plans and Payers: **4.2%**
- Mass fatality and Management Services: **0**
- Medical Materials: **10.9%**
- Laboratories, Blood, Pharmaceuticals: **5.6%**
- Public Health: **3.1%**
- Cross-sector: **3.6%**
- Government (Fed, State, County, Local): **9.5%**
- Advisors: **13.2%**

## Webpage Views 2018 vs. 2019 vs. 2020

- Total Page Views
  - 2020: 19,427 / 2019: 34,903 / 2018: 5,817
  - **-44.3% Decrease**
- Unique Page Views
  - 2020: 17,788 / 2019: 31,028 / 2018: 4,365
  - **-42.6% Decrease**

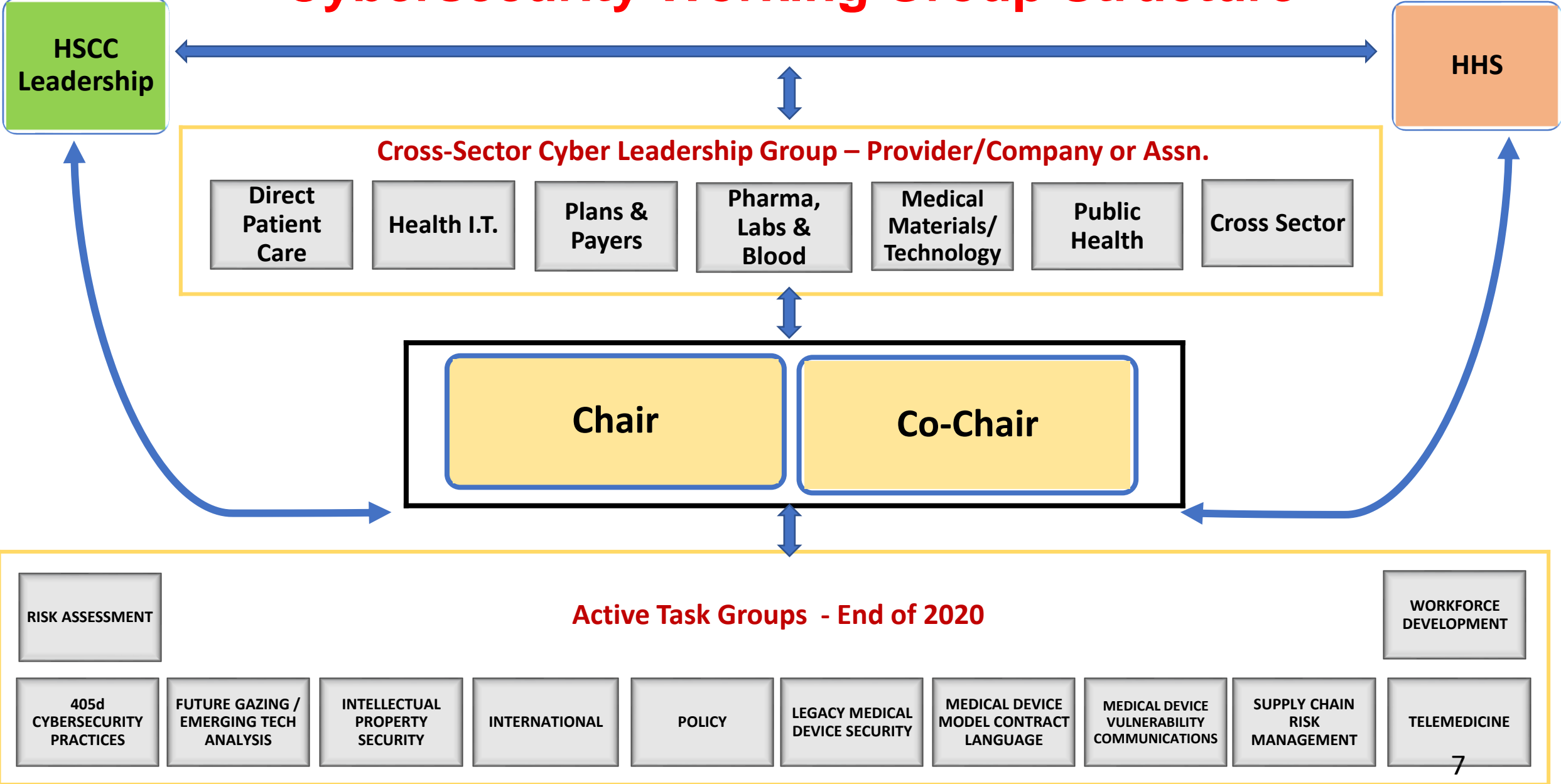
## Social Media Followers

- LinkedIn: 340
- Twitter: 117
  - Social Media Accounts were created in October 2018.

## Press Mentions

- 24 Press Mentions in 2020
  - 2 Press Mentions per month on average.

# Cybersecurity Working Group Structure



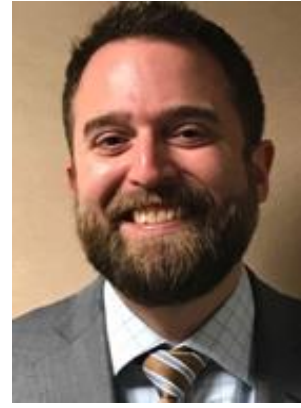
# 2021 Executive Committee



**CHAIR: Terence (Terry) Rice**  
Vice President, Information  
Risk Management and CISO,  
Merck



**VICE CHAIR: Theresa Meadows,**  
SVP & CIO, Cook Children's  
Healthcare System



**Erik Decker, Chief**  
Information Security &  
Privacy Officer, University of  
Chicago Medical Center



**Leslie A. Saxon, MD,**  
Executive Director, USC  
Center for Body Computing



**Marilyn Zigmund Luke, Vice**  
President, Special Projects  
America's Health Insurance Plans



**Michael McNeil,**  
Senior Vice President,  
Global CISO, McKesson



**Greg Barnes, CISO**  
Amgen



**Sri Bharadwaj, Vice President,**  
Digital Innovation,  
Franciscan Health



**Denise Anderson,**  
President, Health-ISAC



**Mark Jarrett, Chief Quality Officer,**  
Senior Vice President & Associate  
Chief Medical Officer, Northwell  
Health



# 2021 Government Co-Chairs

**Suzanne Schwartz**

**Director**

**Office of Strategic Partnerships & Technology Innovation**

**Center for Devices and Radiological Health**

**U.S. Food and Drug Administration**

**Bob Bastani**

**Senior Cyber Security Advisor**

**Security, Intel, and Information Management Division**

**Office of the Assistant Secretary for Preparedness & Response**

**U.S. Department of Health and Human Services**

**Julie Chua**

**Risk Management Branch Chief**

**HHS Office of the Chief Information Officer**

# HEALTHCARE SECTOR COORDINATING COUNCIL CYBERSECURITY WORKING GROUP

## Initiatives and Deliverables

## **CWG Task Groups formed to implement the 2017 Healthcare Industry Cyber Security Task Force Imperatives:**

1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity.
2. Increase the security and resilience of medical devices and health IT
3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities
4. Increase healthcare industry readiness through improved cybersecurity awareness and education
5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure
6. Improve information sharing of industry threats, risks, and mitigations

# 2020-21 Task Groups – Active and Completed

<b>Risk Assessment</b>	<b>Telemedicine</b>	<b>Workforce Development</b>	<b>Future Gazing / Emerging Technology Analysis</b>	<b>International</b>	<b>Policy</b>
<b>Medical Device Vulnerability Communications</b>	<b>Medical Device Model Contract Language</b>	<b>Legacy Medical Device Security</b>	<b>405d CYBERSECURITY PRACTICES</b>	<b>Supply Chain Cyber Risk Management</b>	<b>Intellectual Property Data Protection</b>
<b>Regulatory Harmonization</b>	<b>Exercises / Incident Response</b>	<b>Marketing</b>	<b>Cross-sector</b>	<b>Security Clearances</b>	<b>Information Sharing</b>

# Policy Recommendations & Coordination

## Policy

- December 30 - [HSCC Comment on FDA Cybersecurity Vulnerability Communications Framework](#)
- December 17 - [HSCC Letter Supporting HR 7898 \(enacted January 5, 2021\)](#)

## Coordination

- Rollout and Implementation of SharePoint across the general membership
- ~300 Task Group meetings and calls, 41 weekly SCC/GCC leadership calls
- International webinar engagements with healthcare cybersecurity partners in Israel; New Zealand; briefings on China and Russia cyber threats
- 17 HSCC CWG-featured virtual speaking engagements
- ~90 new member orientation calls
- Multiple consultations with FDA, HHS ASPR, DHS CISA and industry on the critical healthcare functions, OWS cyber threats, SolarWinds and others
- Advisory briefings for GAO, Congressional staff and DHS CISA
- Week-long membership “All Clicks” Meeting - October

# 2020 Best Practices Publications

SEE: <https://healthsectorcouncil.org/hsc-recommendations/>

**September 22**

[Health Industry Cybersecurity Supply Chain Risk Management](#)

**June 6**

[Health Sector Return-to-Work \(R2W\) Guidance](#)

**May 18**

[Health Industry Cybersecurity Tactical Crisis Response](#)

**May 14**

[Health Industry Cybersecurity Protection of Innovation Capital](#)

**March 11**

[Health Industry Cybersecurity Information Sharing Best Practices](#)

**March 9**

[Management Checklist for Teleworking Surge During COVID-19](#)

# Addressing the Health Care Industry Cybersecurity Task Force Imperatives

HCIC IMPERATIVES	JCWG DELIVERABLES	DATE DELIVERED
<p><b>1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM)</a></li> <li>• CWG letters to HHS in 2018 (<a href="#">Oct. 26 -OIG</a> and <a href="#">August 28-CMS</a>) on Stark rule waiver accepted in HHS proposed rule</li> <li>• <a href="#">Health Industry Cybersecurity Practices (HICP)</a></li> </ul>	<p>September 2020</p> <p>October 2019</p> <p>August 2019</p> <p>December 2018</p>
<p><b>2. Increase the security and resilience of medical devices and health IT</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM)</a></li> <li>• HIC-SCRiM v1</li> <li>• <a href="#">Management Checklist for Teleworking Surge During COVID-19 Response</a></li> <li>• <a href="#">Medical Device and Health I.T. Joint Security Plan (JSP)</a></li> <li>• <a href="#">Health Industry Cybersecurity Practices (HICP)</a></li> </ul>	<p>September 2020</p> <p>October 2019</p> <p>March 2020</p> <p>January 2019</p> <p>December 2018</p>
<p><b>3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Industry Cybersecurity Workforce Development Guide (HIC-Workforce)</a></li> </ul>	<p>June 2019</p>

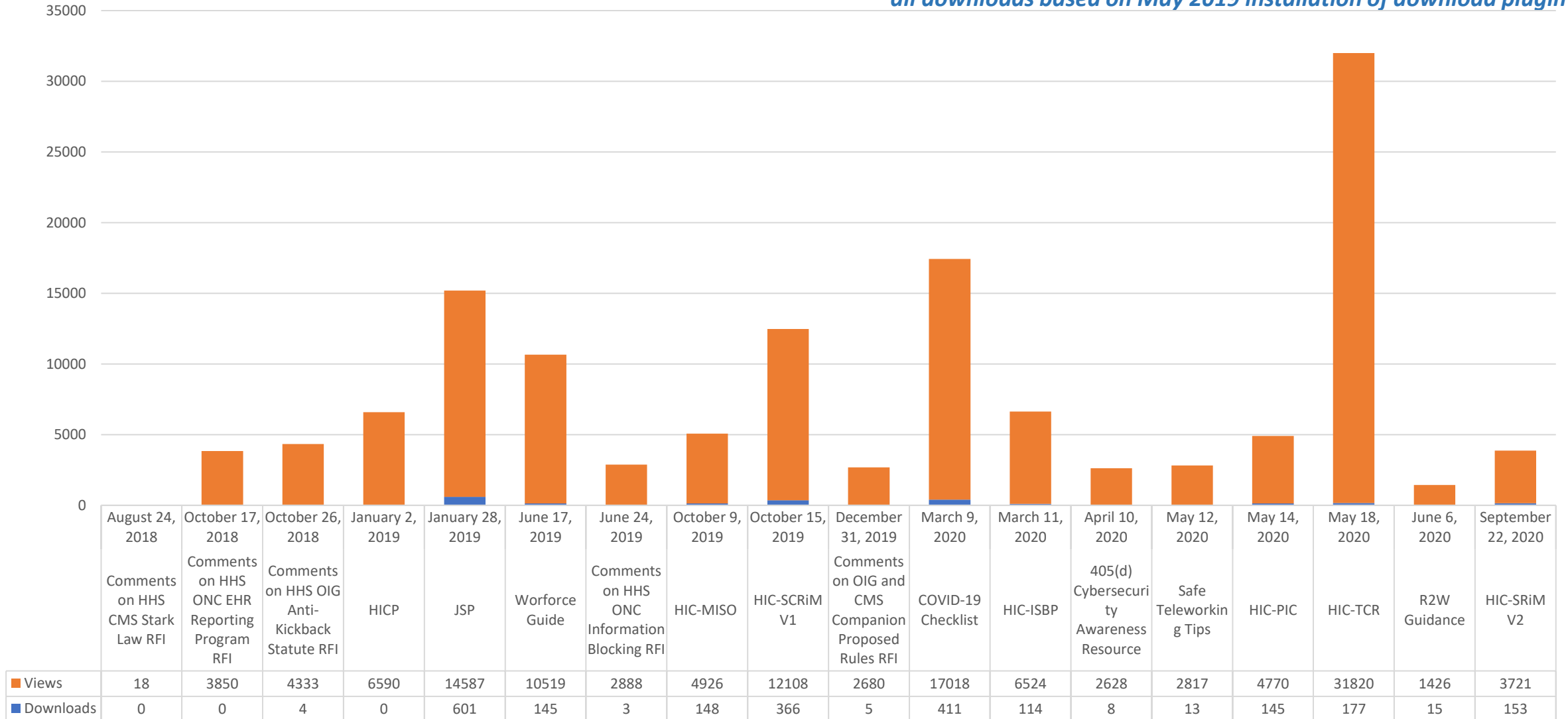
# Addressing the Health Care Industry Cybersecurity Task Force Imperatives

HCIC IMPERATIVES	JCWG DELIVERABLES	DATE DELIVERED
<p><b>4. Increase healthcare industry readiness through improved cybersecurity awareness and education</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Sector Return to Work Guidance</a></li> <li>• <a href="#">Health Industry Cybersecurity Tactical Crisis Response Guide</a></li> <li>• <a href="#">HSCC Multimedia Promotions for National Cyber Security Awareness Month (blogs, podcast, webinars)</a></li> <li>• <a href="#">HICP</a>, <a href="#">HIC Workforce</a>, <a href="#">HIC-MISO</a>, <a href="#">JSP</a>, <a href="#">HIC-SCRiM</a></li> </ul>	<p>June 2020 May 2020</p> <p>October 2019</p> <p>2019-2020</p>
<p><b>5. Identify mechanisms to protect R&amp;D efforts and intellectual property from attacks and exposure</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Industry Cybersecurity Intellectual Property Protection Guide</a></li> </ul>	<p>May 2020</p>
<p><b>6. Improve information sharing of industry threats, risks, and mitigations</b></p>	<ul style="list-style-type: none"> <li>• <a href="#">Health Sector Return to Work Guidance</a></li> <li>• <a href="#">Health Industry Cybersecurity Tactical Crisis Response Guide</a></li> <li>• <a href="#">Health Industry Cybersecurity Information Sharing Best Practices</a></li> <li>• <a href="#">Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO)</a></li> </ul>	<p>June 2020 May 2020</p> <p>March 2020</p> <p>September 2019</p>



# View and Download Statistics of HSCC Recommendations

*all downloads based on May 2019 installation of download plugin\**



# Deliverables on Deck

- **Telemedicine Cybersecurity White Paper and Guide – Expected February**
- **Health Industry NIST Cybersecurity Framework Implementation Guide – Expected Q1**
- **Legacy Medical Device Cybersecurity Management Guide – Expected Late Q1**
- **Medical Device Model Cybersecurity Contract Language – Expected Q2**

## 2020 CWG Strategic Plans & Measures

- Strengthened “culture of leadership” in CWG:
  - EC leadership routinely identifying and recruiting new leaders within membership
- Expanded cross-sector representation of largest subsector stakeholders
- Increased membership and participation of senior executive decision-makers
- Task Group work products distributed and endorsed by relevant national industry associations; adopted by market movers
- Collaborative mechanisms for measuring adoption, implementation and results across relevant subsectors

### Leadership Measures

- Increased demand (exceeding supply) for Chairs/Execcom/TG leadership roles
- Formation of plan for 2020 CEO Council
- Increase “proactive thinking” and organizational in-kind contributions
- Average 50% attendance in TG workstreams
- Two member contributions to website per month
- Increased traffic on webchat platform

### Representation Measures

- Subsector representation each at 85% of market (metric to be defined)
- % of member representative titles at VP or above / % increase of that figure over 2018

### Implementation Measures

- At least the 2 largest associations by membership per subsector distributing/endorsing relevant work products with follow-up monitoring and measuring plan.

# HEALTH SECTOR COORDINATING COUNCIL

## Joint Cybersecurity Working Group

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