

第44回医療情報学連合大会

第25回日本医療情報学会学術大会

第91回HL7セミナー

## HL7 FHIR DevDaysのご紹介

日本HL7協会 情報教育委員会委員長

檀原 一之

2024年11月21日

1. HL7 FHIR DevDaysとは
2. DevDaysのセッション
3. Whova でイベント管理
4. 参加することのメリット
5. 2025年のDevDays

- HL7 International と Firely（オランダの会社）が主催する、世界最大の FHIR イベント。
- 基調講演、チュートリアル、事例紹介、ネットワーキングイベント等で構成。
- 対面、バーチャル、またはその両方の形式の組み合わせで開催。
- 直近では、2024年6月に、米国ミネアポリスで、対面形式で4日間、開催。年に1回、米国またはオランダで開催。
- 2024年6月のDevDaysは、21ヶ国から計355名が参加。日本企業からもFHIR活用事例の紹介を行った。

2024年6月のHL7 FHIR DevDaysは、McNamara Alumni Center で開催された。



McNamara Alumni Center  
University of Minnesota

[Check Availability](#)

[Contact Us](#)

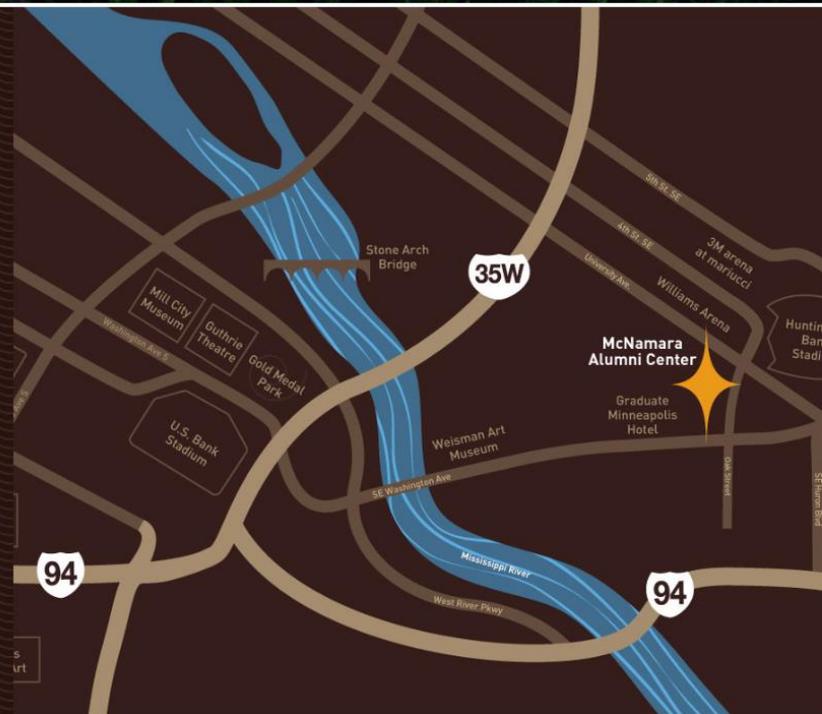
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### Conveniently Located

Conveniently located off Interstates 35W and 94, the alumni center is easy to get to and is less than 2 miles from downtown Minneapolis and 14 miles from the airport. A 500-car parking ramp is adjacent to the alumni center and connected by tunnel.

Watch this [two-minute video](#) that showcases our beautiful venue and its many conveniences for local, regional and



5部屋で分かれて各セッションが同時進行で開催。

9:45 – 10:15 AM	<b>Break</b>				
9:50 – 10:10 AM	<b>Meet &amp; Greet Keith Figlioli</b>				
10:15 – 11:00 AM	<b>Promise of a Modern, Digital Healthcare System: ONC Regulations</b>  Avinash Shanbhag, ONC  Memorial Hall	<b>Introduction to FHIR Shorthand</b>  Simone Heckmann, Gefyra  Johnson Great Room 	10:15 – 10:35 AM <b>Moving to “Real” International Patient Summary (IPS) Implementations - Putting the Pieces Together</b> Robert Hausam, Hausam Consulting	10:15 – 10:35 AM <b>Syncing Resources Between Distributed FHIR Servers</b> Joshua Kelly, Flexpa	<b>From Real-World Problem to Production at Scale: FHIRcast</b>  Isaac Vetter, Epic
		10:40 – 11:00 AM <b>Enhancing Patient-Controlled Sharing of the FHIR International Patient Summary</b> Bill Lober, University of Washington	10:40 – 11:00 AM <b>Real World Use of FHIR Info Gateway to Enhance Privacy for an Offline-First Digital Health Solution</b> Bashir Sadjad, Google	10:40 – 11:00 AM <b>Real World Use of FHIR Info Gateway to Enhance Privacy for an Offline-First Digital Health Solution</b> Bashir Sadjad, Google	Thomas Swain Room
11:15 AM – 12:00 PM	LET'S BUILD! <b>Introduction to FHIR Shorthand</b>	11:15 – 11:35 AM <b>Bulk FHIR Data Quality and Characterization with Open Source Tools</b> Dan Gottlieb, Central Square Solutions	<b>CQL Overview</b>	11:15 – 11:35 AM <b>Expanding FHIR Space: FHIR for Pharmaceutical Regulatory Submissions</b>	BOF <b>Demystifying FHIR Profiles: Introducing FHIR Schema</b>

- 参加料は、HL7メンバー、かつ早期割引で申し込んだ場合、約2,000ドル。

Category	Early Registration	Late Registration
	<i>Paid by May 6, 2024</i>	<i>Paid after May 6, 2024</i>
HL7 Members	\$1,995	\$2,395
Non-HL7 Members	\$2,395	\$2,795
Students*	\$997.50	\$1,197.50

<https://www.devdays.com/devdays-edition-2024/> より



<https://www.devdays.com/devdays-edition-2024/> より



- Beginner Tutorial
  - Introduction to FHIR
  - Introduction to FHIR Modeling
  - Introduction to FHIR Messages and FHIR Documents
  - Introduction to FHIR Search
  - Questionnaires and Structured Data Capture
  - Introduction to SNOMED with FHIR
  - SMART App Launch Overview
  - Order Management Workflow
- Advanced Tutorial
  - Leveraging FHIR - User's Guide
  - Code Generation for Implementation Guides

チュートリアルは、ビギナー向け、経験者向けがある

- Community Talk
  - FHIR with Friends: How HL7 International fosters an open community advancing FHIR as a global good
  - Update on FHIR Implementation Division Programs
  - Lessons Learned from Representing Clinically Relevant Medication Knowledge in Finland
  - Composition or Questionnaire - Which to Use When
  - FHIR's Digitization Triangle in Germany, Fullfilling the Third Part with ePA-restart and ePrescription Sync
  - HL7 FHIR Implementation for Singapore Healthier SG National Programme
  - An Implementation Guide for Cross-Platform PHR Utilization in Japan

 FHIR実装事例

- Social
  - Welcome Reception
  - Food & Drinks | American Grill Out
  - Early Morning DevDays Run and Hike
  - Social Event at Mill City Museum
- Keynote
  - Plenary Session | FHIRing up Artificial Intelligence

ミシシッピ川沿いを走る  
5kmのランニング or  
ウォーキング

Mill City博物館見学、  
ディナー

- Home
- Agenda >
- Attendees
- Community 39
- Messages
- Photos
- Exhibitors
- Leaderboard
- Resources >
- My Stuff >
- Feedback to Whova

## Attendees

All Recommended Bookmarked Categories

K Kazuyuki Dambara  
HL7 Japan · Japan

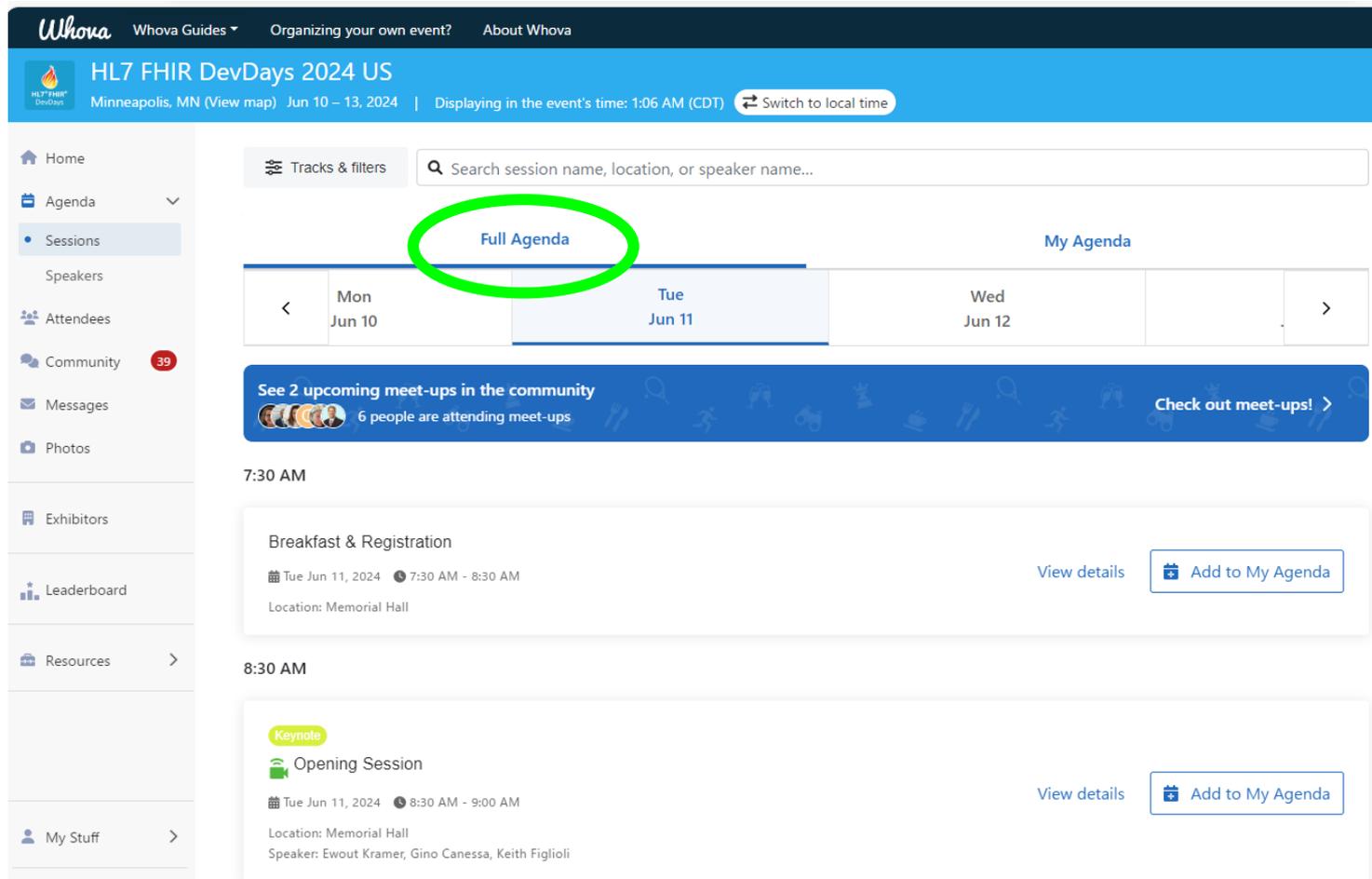
369 attendees total

Search name, affiliation, or location...

A

 <p><b>Tim Abbott</b> Founder · Zulip · San Francisco, California, United States</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>James Agnew</b> Head Geek and CTO · Smile Digital Health · Toronto, ON M6G 1B4</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>Vijay Akkapedi</b> Technical Lead · Cotiviti · United States</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>James Alexander</b> Senior Product Manager · Optum · United States</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>
 <p><b>Rich Almeida</b> VP Product Strategy &amp; Compliance · Firely USA · United States</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>Corky Ames</b> Architect · Phreesia · United States</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>Brian Amundson</b> Software Solutions Architect · AmWell · Boston, Massachusetts</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>	 <p><b>Carl Anderson</b> Principal Platform Integration Engineer · Mayo Clinic · Madison, Wisconsin...</p> <p>Speakers</p> <p>Bookmark View Profile Say Hi!</p>

参加者は、Attendees メニューで確認



Whova Whova Guides Organizing your own event? About Whova

HL7 FHIR DevDays 2024 US  
Minneapolis, MN (View map) Jun 10 – 13, 2024 | Displaying in the event's time: 1:06 AM (CDT) [Switch to local time](#)

Home  
Agenda  
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Leaderboard  
Resources  
My Stuff

Tracks & filters Search session name, location, or speaker name...

Full Agenda My Agenda

Mon Jun 10 Tue Jun 11 Wed Jun 12

See 2 upcoming meet-ups in the community  
6 people are attending meet-ups [Check out meet-ups!](#)

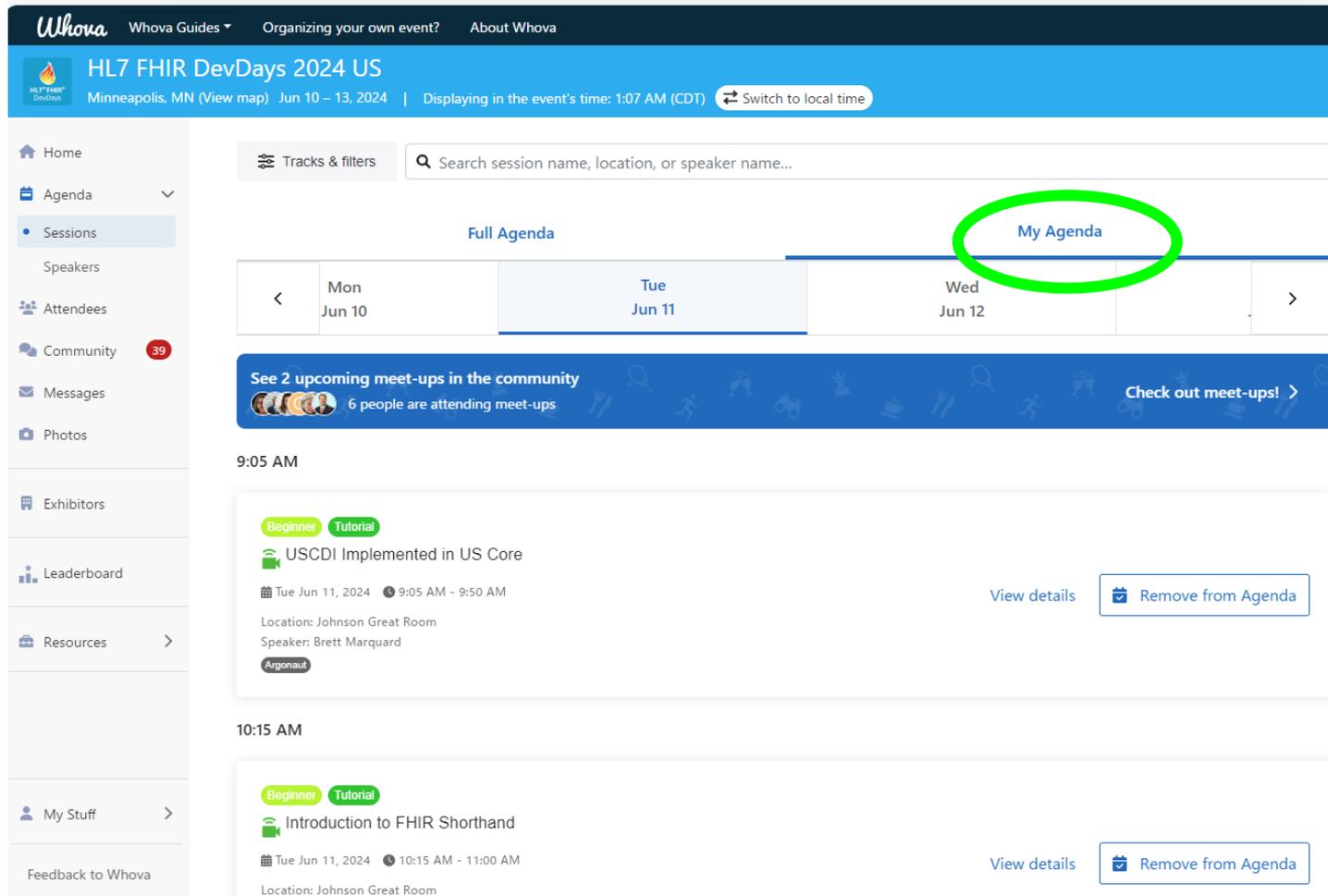
7:30 AM

Breakfast & Registration  
Tue Jun 11, 2024 7:30 AM - 8:30 AM [View details](#) [Add to My Agenda](#)  
Location: Memorial Hall

8:30 AM

Keynote  
Opening Session  
Tue Jun 11, 2024 8:30 AM - 9:00 AM [View details](#) [Add to My Agenda](#)  
Location: Memorial Hall  
Speaker: Ewout Kramer, Gino Canessa, Keith Figlioli

セッション一覧は、Full Agenda メニューに掲載



Whova Whova Guides Organizing your own event? About Whova

HL7 FHIR DevDays 2024 US  
Minneapolis, MN (View map) Jun 10 – 13, 2024 | Displaying in the event's time: 1:07 AM (CDT) [Switch to local time](#)

Home  
Agenda  
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Speakers  
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Community 39  
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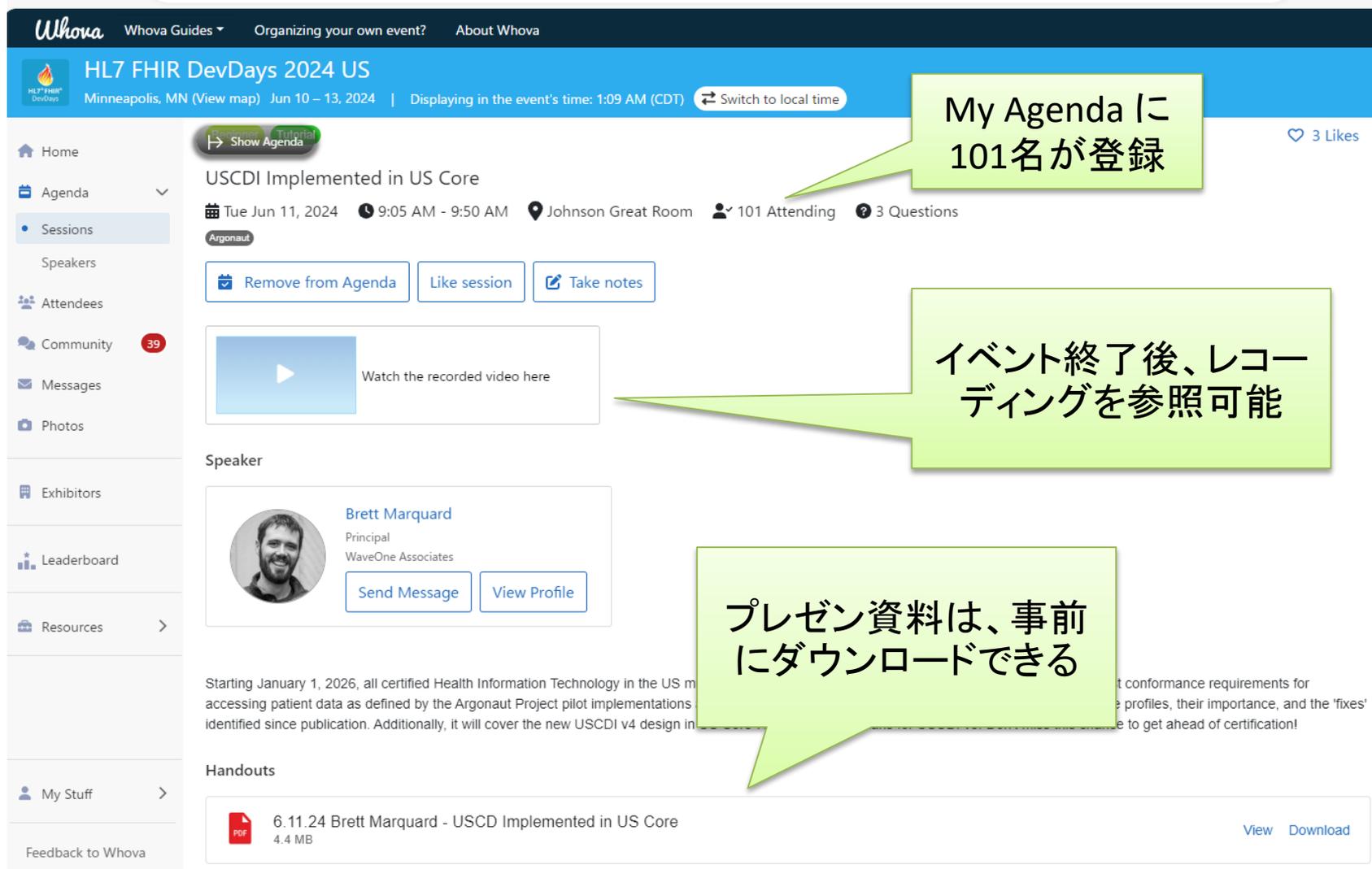
9:05 AM

Beginner Tutorial  
USCDI Implemented in US Core  
Tue Jun 11, 2024 9:05 AM - 9:50 AM  
Location: Johnson Great Room  
Speaker: Brett Marquard  
Argonaud  
View details Remove from Agenda

10:15 AM

Beginner Tutorial  
Introduction to FHIR Shorthand  
Tue Jun 11, 2024 10:15 AM - 11:00 AM  
Location: Johnson Great Room  
View details Remove from Agenda

自分が参加するセッションは、My Agenda メニューに登録しておく

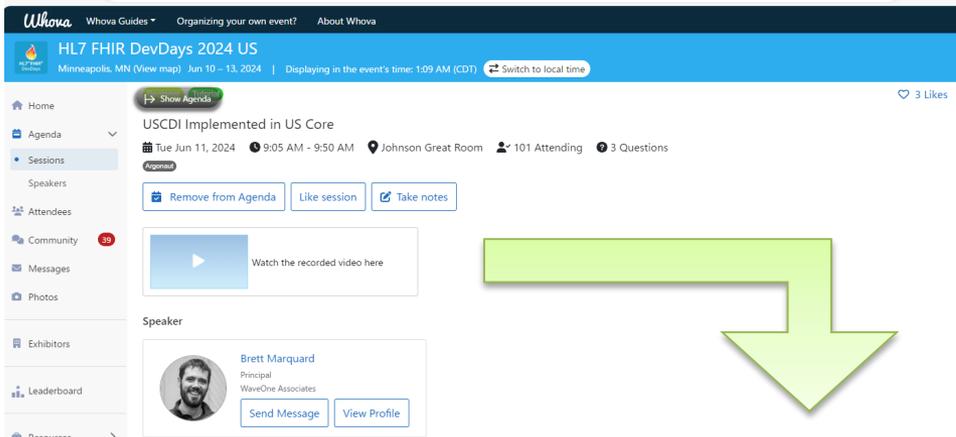


The screenshot shows the Whova interface for the event "HL7 FHIR DevDays 2024 US" in Minneapolis, MN, from June 10-13, 2024. The current session is "USCDI Implemented in US Core" on Tuesday, June 11, 2024, from 9:05 AM to 9:50 AM in the Johnson Great Room, with 101 attendees and 3 questions. The interface includes a navigation menu on the left with options like Home, Agenda, Sessions, Speakers, Attendees, Community, Messages, Photos, Exhibitors, Leaderboard, Resources, My Stuff, and Feedback to Whova. The main content area features a "Show Agenda" button, a video player placeholder for a recorded session, a speaker profile for Brett Marquard (Principal at WaveOne Associates) with "Send Message" and "View Profile" buttons, and a "Handouts" section containing a PDF titled "6.11.24 Brett Marquard - USCDI Implemented in US Core" (4.4 MB) with "View" and "Download" options. Three green callout boxes highlight key features: "My Agenda に 101名が登録" (101 people registered on My Agenda), "イベント終了後、レコーディングを参照可能" (Recording can be referenced after the event ends), and "プレゼン資料は、事前にダウンロードできる" (Presentation materials can be downloaded in advance).

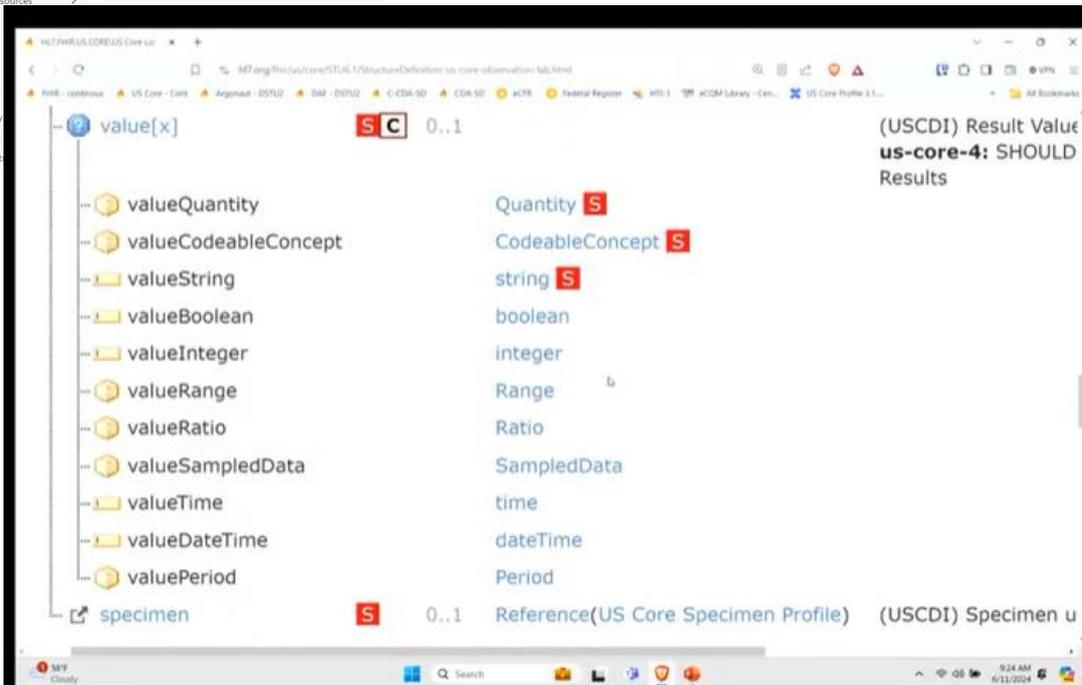
My Agenda に  
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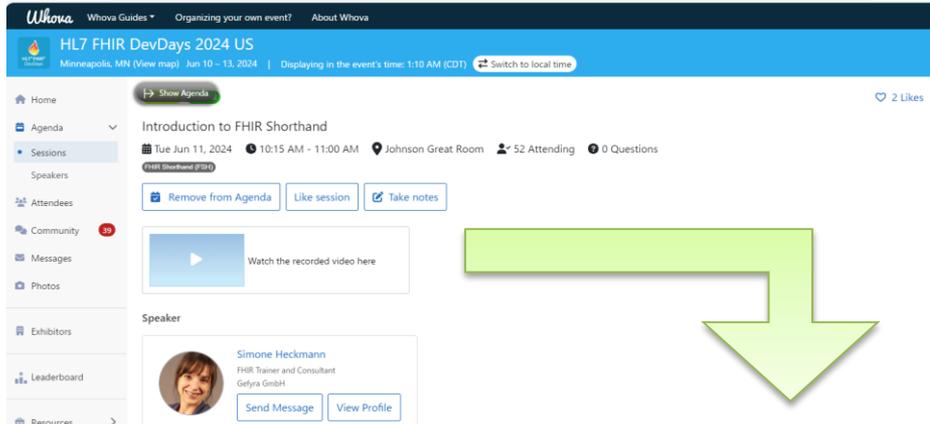
イベント終了後、レコー  
ディングを参照可能

プレゼン資料は、事前  
にダウンロードできる

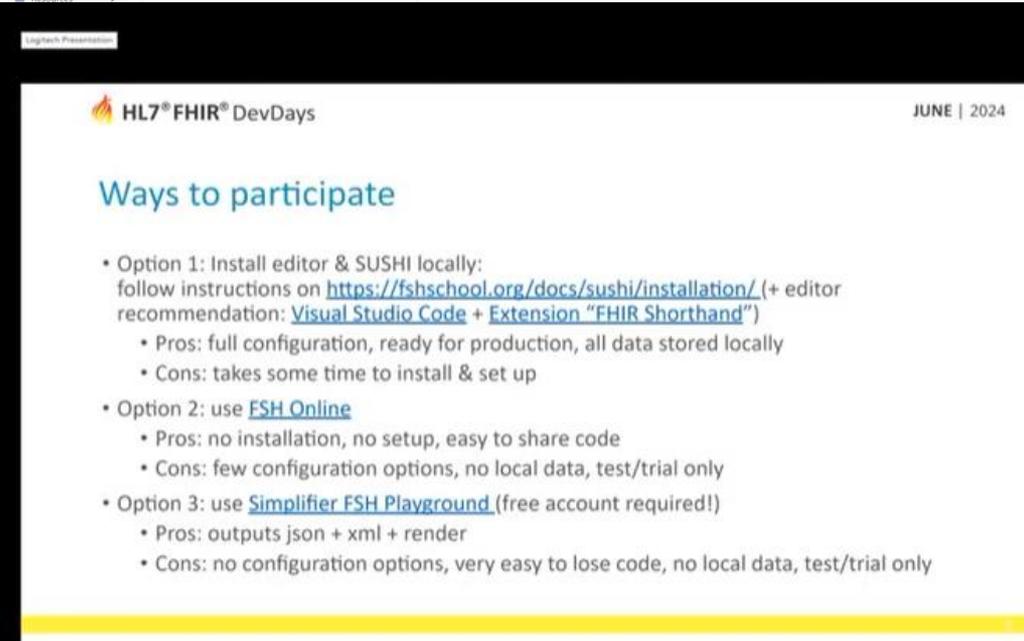


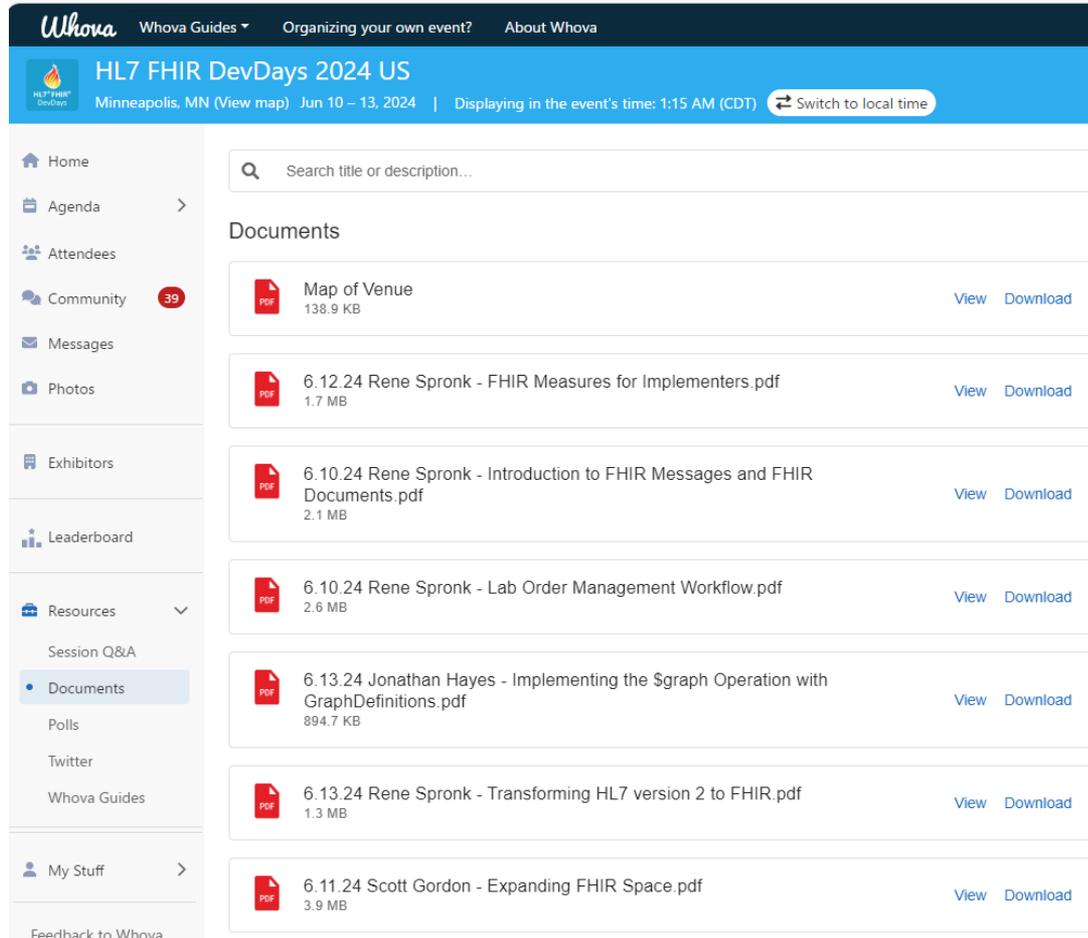
イベント終了後、レコーディングを参照可能





イベント終了後、レコーディングを参照可能

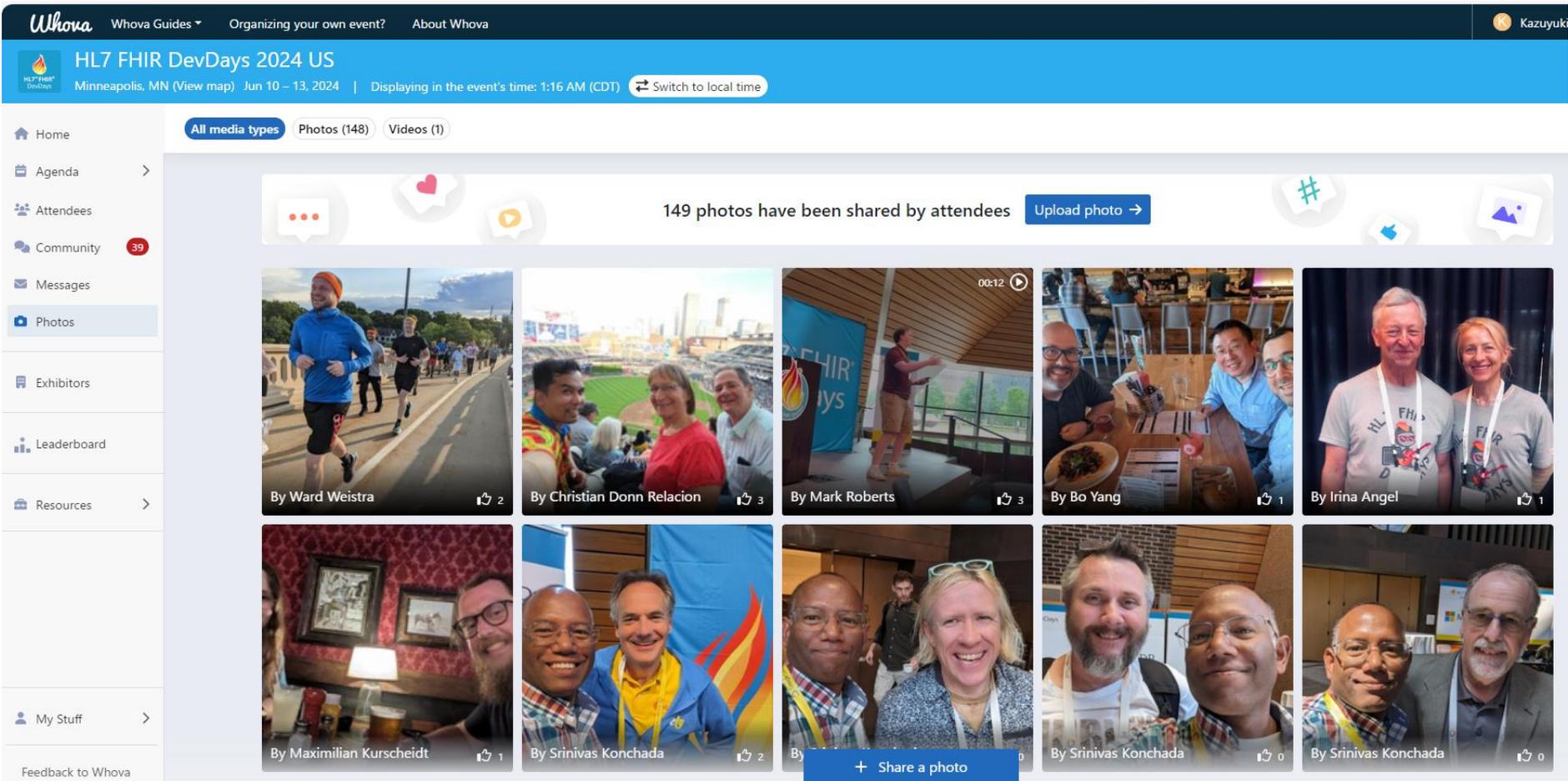




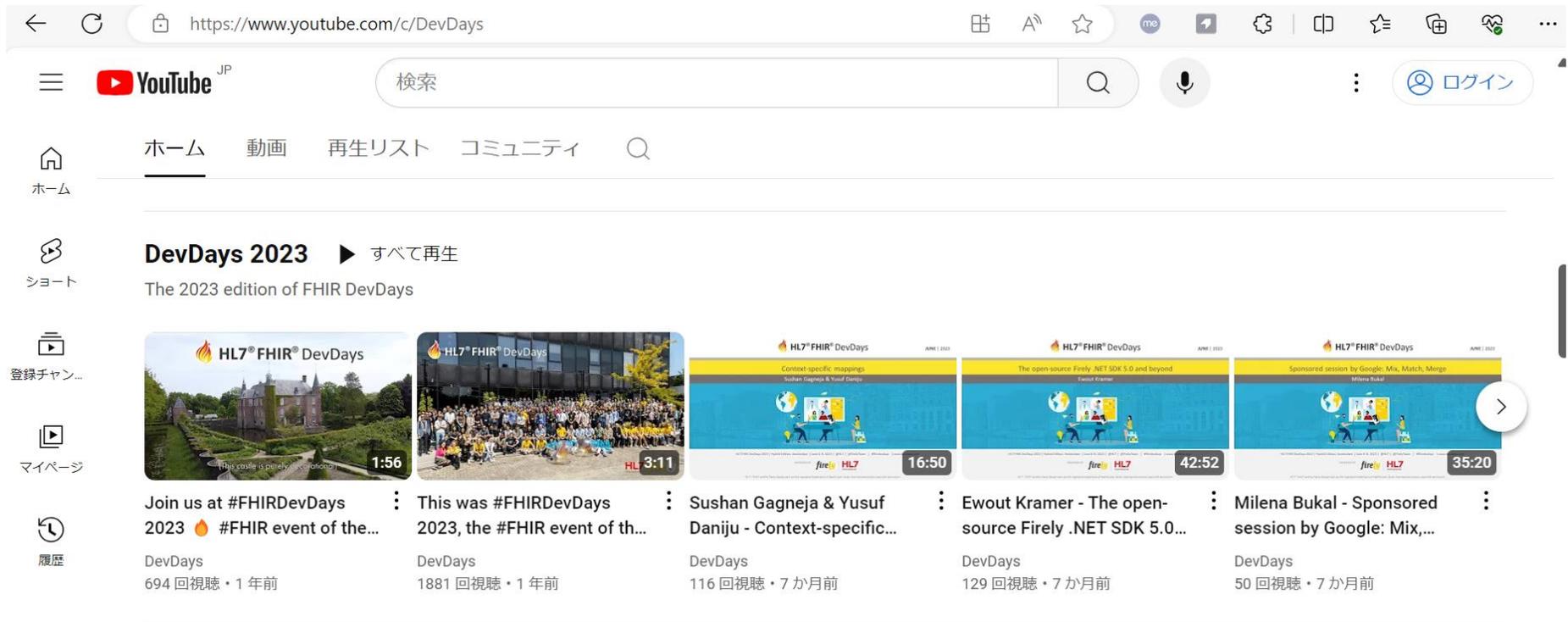
The screenshot shows the Whova event management interface for "HL7 FHIR DevDays 2024 US" in Minneapolis, MN, from June 10-13, 2024. The interface includes a navigation menu on the left with options like Home, Agenda, Attendees, Community (39), Messages, Photos, Exhibitors, Leaderboard, Resources, Documents, Polls, Twitter, Whova Guides, and My Stuff. The main content area displays a search bar and a "Documents" section with a list of PDF files, each with a "View" and "Download" link.

Document Title	Size	View	Download
Map of Venue	138.9 KB	<a href="#">View</a>	<a href="#">Download</a>
6.12.24 Rene Spronk - FHIR Measures for Implementers.pdf	1.7 MB	<a href="#">View</a>	<a href="#">Download</a>
6.10.24 Rene Spronk - Introduction to FHIR Messages and FHIR Documents.pdf	2.1 MB	<a href="#">View</a>	<a href="#">Download</a>
6.10.24 Rene Spronk - Lab Order Management Workflow.pdf	2.6 MB	<a href="#">View</a>	<a href="#">Download</a>
6.13.24 Jonathan Hayes - Implementing the \$graph Operation with GraphDefinitions.pdf	894.7 KB	<a href="#">View</a>	<a href="#">Download</a>
6.13.24 Rene Spronk - Transforming HL7 version 2 to FHIR.pdf	1.3 MB	<a href="#">View</a>	<a href="#">Download</a>
6.11.24 Scott Gordon - Expanding FHIR Space.pdf	3.9 MB	<a href="#">View</a>	<a href="#">Download</a>

プレゼン資料は、Documents メニューから一括ダウンロード可能



photos メニューで、参加者が撮った写真をアップし、共有可能



The screenshot shows the YouTube channel page for 'DevDays 2023'. The channel name is 'DevDays 2023' with a play button icon and the text 'すべて再生' (All played). Below the channel name, it says 'The 2023 edition of FHIR DevDays'. The main content area displays a grid of video thumbnails. The first thumbnail shows a castle with the text 'This castle is purely a coincidence' and a duration of 1:56. The second thumbnail shows a large group of people at an event with a duration of 3:11. The third, fourth, and fifth thumbnails are screenshots of presentations with durations of 16:50, 42:52, and 35:20 respectively. Each video thumbnail includes the 'HL7 FHIR DevDays' logo and the 'firely HL7' logo. The video titles and their respective view counts and upload times are listed below each thumbnail.

Video Title	Duration	Views	Upload Time
Join us at #FHIRDevDays 2023 🔥 #FHIR event of the...	1:56	694	1年前
This was #FHIRDevDays 2023, the #FHIR event of th...	3:11	1881	1年前
Sushan Gagneja & Yusuf Daniju - Context-specific...	16:50	116	7か月前
Ewout Kramer - The open-source Firely .NET SDK 5.0...	42:52	129	7か月前
Milena Bukal - Sponsored session by Google: Mix, Match, Merge	35:20	50	7か月前

イベント終了後、半年後にYoutubeでコンテンツが公開されるので、イベントに参加していなくても内容を見ることができる。2024年のコンテンツは、12/6から公開予定。



1. FHIRの最新情報が得られる：FHIRは、医療情報交換のための新しい標準として、世界中で注目されている。FHIRに関する最新の情報や動向を得ることができる。
2. 専門家との交流：FHIR DevDaysには、FHIRの専門家や開発者による講演やワークショップが多数用意されている。また、参加者同士で情報交換やネットワークを築くこともできる。
3. ハンズオン：FHIR DevDaysでは、FHIRを活用したアプリケーション開発を体験できるハンズオンが提供される。実際に手を動かして開発を体験することで、FHIRの理解を深めることができる。
4. FHIRの実装事例を知ることができる：FHIRを活用したアプリケーション開発事例や、医療現場におけるFHIRの導入事例を学ぶことができる。
5. FHIRの将来展望がわかる：FHIRの開発元であるHL7 Internationalからは、FHIRの将来展望やロードマップについて発表される。FHIRの将来の方向性や、業界動向を把握することができる。



2025年は、6/3（火） - 6/6（金）に、オランダ、アムステルダムで開催  
予定



ご静聴ありがとうございました