

7.2.1_SIDTM_Best Practices (1) _2019-2020

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1	Prevision '20 SITM's Annual Telecom Forecast
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1.1 Best Practice #1 -Title: “Prevision’20 SIDTM’s Annual Telecom Forecast”

- 1) Objectives of the practice: Annual Telecom Forecast Magazine is in its 17th year, initiated in the year 2003 to provide the industry a neutral and insightful point of view regarding the emerging trends in the telecom sector for the forthcoming year. The objective is to create an industry neutral forecast which is needed by industries, academicians, and researchers for future guidance. The forecast is based upon the adoption of methodology such as statistical models. It provides the students with a platform to understand the linkages between theoretical learning and dynamic industry trends.
- 2) The Context: Prevision encompasses the forecast of various parameters of the telecom industry to identify, highlight, and understand significant changes in the telecom ecosystem. The forecast is made about the current emerging market trends in the telecom sector for the forthcoming year. To ensure quality and accuracy of predictions, the process streamlining for Prevision is supervised by Deloitte Haskins & Sells LLP. Prevision is a culmination of the collective endeavor of SITM students, SITM faculty, and industry experts with 2000-man hours of efforts put in by them.
- 3) The Practice: Prevision encompasses the forecast of various parameters of the telecom industry to identify, highlight, and understand significant changes in the telecom ecosystem. It is the only effort of its kind in the telecom domain being attempted by a business school, which provides comprehensive coverage over various domains in the telecom sphere. It is an annual exercise and is well received among industry experts. Statistical-factor analysis, inputs from the faculty, SITM alumni base, and the industry experts, predictions are made about the market trends in the telecom sector for the forthcoming year.
- 4) At the data analysis stage, the 2nd year students get an opportunity to assimilate knowledge from statistics, technology, and experiential learning gained during their summer internships. Whitepapers, written by the students at the end of the second stage are reviewed by some of our Alumni, SITM faculty & Industry mentors from Deloitte Haskins & Sells LLP.
- 5) Evidence: The forecast is well accepted in the industry and academicians. It is extremely important for higher education and decision making in the industry. In the process of finalization of Prevision every year, the students of SITM are involved. Every year a special feature is added with all aspects of information and forecast related

to that area. The Prevision is completed and presented in September every year. A copy of the same is available on the SITM website.

- 6) Following verticals are covered in Prevision: Global Telecom World Penetration Rate, Technology Rollouts, Regional Analysis Indian Telecom Tele-density, Subscriber Base, Market Dynamics, New Technology Analysis Mobility ARPU, Penetration, Voice & VAS Broadband Penetration, Access, Broadband market analysis Telecom Technologies Core, Access, Transmission analysis, and Application Telecom Software Billing, Revenue Assurance, Fraud Management, Security Communication Infrastructure Fixed and Mobile Infrastructure, Green Infrastructure, Active/Passive infrastructure sharing Consumer Electronics Growth and Trend in handheld electronics and mobile devices Special Feature Digital Transformation.
- 7) Outcome: Evidence of Success: 88% accuracy of the forecast. The outcome of this practice is that the Prevision research process aids:
 - i. The students can understand the effect of macro-economic, technological & regulatory factors on the telecom industry in India as well as the world. The entire process of preparing Prevision includes students of SITM
 - ii. Aids the industry as the accuracy of prediction is based upon the tools used and input data has been about 80% since its inception.
 - iii. This is a networking platform to involve the Students, Alumni, and the Industry with consultants Deloitte Haskins & Sells LLP on a professional engagement.
 - iv. The Process Reviewed and Streamlines by Deloitte Haskins & Sells LLP
 - o “Obstacles faced
- 8) Obstacles faced if any and strategies adopted to overcome them: One of the key problems is the lack of adequate and relevant data on the independent variables that influence the predicted values. To overcome this, we refer to multiple informal data sources and draw commonalities and then proceed with the data for analysis. Since the last two years, SITM students have conducted interactions with subject matter experts from academia and industry. This helps us in identifying qualitative factors and has helped us to improve the accuracy of our predictions. For the past few years SITM had limitations of IT resources and statistical packages for data analysis; however, with the setting up of the IBM Lab and the use of open-source tools such as R this limitation has been overcome.
- 9) Impact of the practice: The Prevision is very successful in terms of its acceptance from industry and academicians. SITM has contributed to knowledge generation and

dissemination. The Prevision team is headed by Prof. Giri Hallur and the team was asked to make presentations on this by reputed industry organizations.

- This activity helps students to stay updated with the latest industry happenings and statistical tools.
- SITM publishes more than 500 copies to be distributed to all. Apart from this, it is available on the website of SITM. The accuracy of the prediction made in Prevision is improving every year. The accuracy of predictions and acceptance from academicians and industry indicates its success over 16 years.
- Resources required: Efforts and time required to manage all activities. (ii) IT and analytics software packages, faculty, alumni students with required skill sets, budgetary support, and Networking efforts with external agencies and consultants Deloitte Haskins & Sells LLP.



Figure 1: Prevision P20 - SIDTM Annual Telecom Forecasting

7.2.1_SIDTM_Best Practices (2) _2019-2020

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2	Fizz Stream from Streamingo : capability of the tool.
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1.2 Best Practice #2 – Title: Fizz Stream from Streamingo

- 1) Objectives of the Practice: Be able to use a video as a tool. The video with the quiz is the capability of the tool. The quiz is either compulsory or optional/

The Context: FizzStream from Streamingo is a platform for generating insights from videos. Built by a team of innovative deep learning engineers and researchers, the team has successfully integrated speech recognition, image processing, and text analysis into one single platform. FizzStream can process video URLs, Video Files, audio files, or text files as inputs. The input is processed, through a sequence of analysis steps, which is called Fizzing the video. The output of the system is a FizzD video.

- 2) The Practice: The features are:
 - Question Generation: Generate Subjective and Multiple-Choice Questions with distractors from our sophisticated NLP analysis.
 - Summarization: Automated abstractive and extractive summaries of your content. It helps you decide whether to watch a video or not.
 - Chapters: Break up a video into smaller chapters and subchapters to simplify navigation
 - Keywords & Key Phrases: Zero in on the key concepts of the video quickly. Huge time saver
 - Information retrieval: Recommend relevant links to enhance your understanding
 - Analytics: Intuitive visualization of video analytics captured by the use of a FizzD video
- 3) Evidence of Success: SITM has procured it and two faculty members have used it during the even semester in 2019. Students benefitted a lot from it and used features such as chapterisation, pop-up quiz, and provided logs when students accessed the videos on the platform.
- 4) Problems Encountered: For the faculty preparation needed. And the additional time needed by students. Since its video, It requires good specifications of the student laptop.
- 5) Resources Required: Hi-end video streaming
- 6) Best Practice 1: (Proof): Screenshot for Student view.

Proof of Practice:



The screenshot shows a user interface for a course titled "Convergence of Telecom Networks". At the top, there is a green navigation bar with contact information: "Call us: +91 80 29 67199" and "Email: info@pearsonpl.in". A user profile icon is visible on the right. Below the navigation bar is a red and black logo. The main content area features the course title "Convergence of Telecom Networks" in orange, with a breadcrumb trail "Home / My courses / MPLS". A "Your progress" indicator is on the right. Underneath, there is an "Announcements" section. The course content is organized into three parts, each with a blue icon and a trash icon on the right:

- MPLS Part 1: The Basics of Label Switching**
 - MPLS Part 1: The Basics of Label Switching
- MPLS Part 2: MPLS-TP**
 - MPLS Part 2: MPLS-TP
- Introduction to SDN (Software-defined Networking)**
 - Introduction to SDN (Software-defined Networking)

MPLS Part 1: The Basics of Label Switching

MPLS Part 1: The Basics of Label Switching

46 Views

SEARCH CONTENT

- Summary of this video
- Key Concepts
- Chapters of this video
- Explore More Information
- Edit Pop-up Quiz

MPLS Domain Router

Label Switch Router
(SR, Provider Router, P Router)

Label Edge Router
(LER, Edge LSR, Provider Edge Router (PE Router))

MPLS Domain

05:24 / 10:11 Chapter 5.1: The correct port

Student login

23 Mar 08:42	NEENAD KALE	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '251' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 08:36	Jaydeepa Sivas	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '235' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 08:24	DEEPAK R.	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '219' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 08:23	DEEPAK R.	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '219' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 01:49	ISHAN SAWAMJIL	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '232' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 01:49	ISHAN SAWAMJIL	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '232' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 00:45	ANKIT RAI	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '194' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
23 Mar 00:31	NITESH NAIK	-	URL: Chapter 6 - H.323	URL	Course module viewed	The user with id '258' viewed the 'url' activity with course module id '27'.	web	114.143.232.74
22 Mar	Jaydeepa Sivas	-	URL: Chapter 6 -	URL	Course module viewed	The user with id '235' viewed the 'url' activity with course module id '27'.	web	114.143.232.74