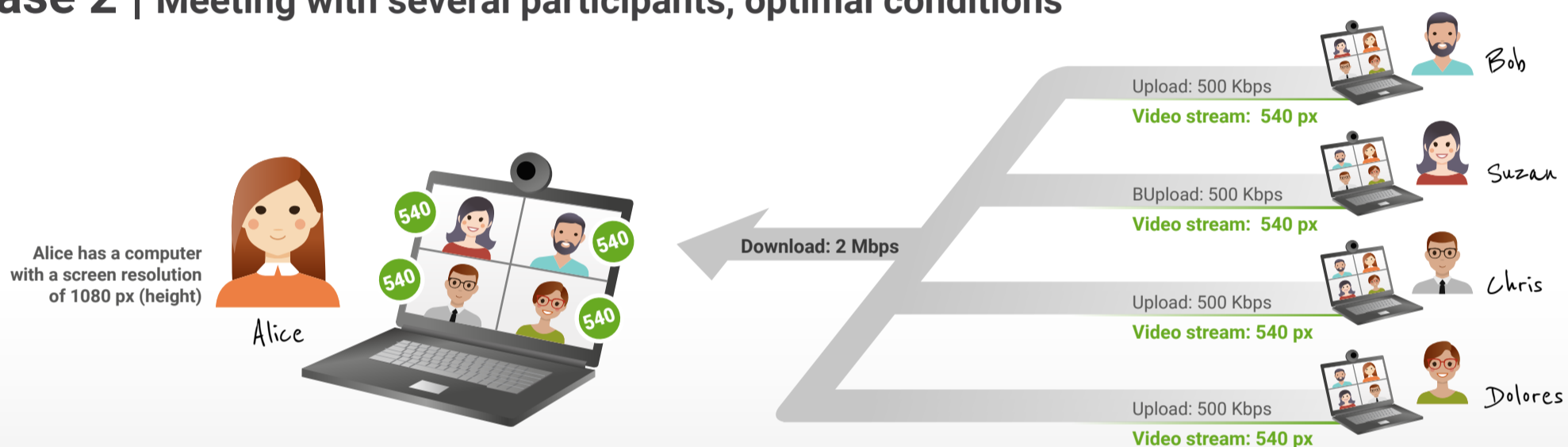# SVConDemand

Tixeo's exclusive technology SVC on Demand fits your environment to provide an optimal user experience. To ensure the stability of your communications, it takes into account the networks quality, CPU performance and the displayed size of other participants.

Case 1 | Meeting with 2 participants, optimal conditions

Alice has a computer with a screen resolution of 1080 px (height)

Alice

HD 1080

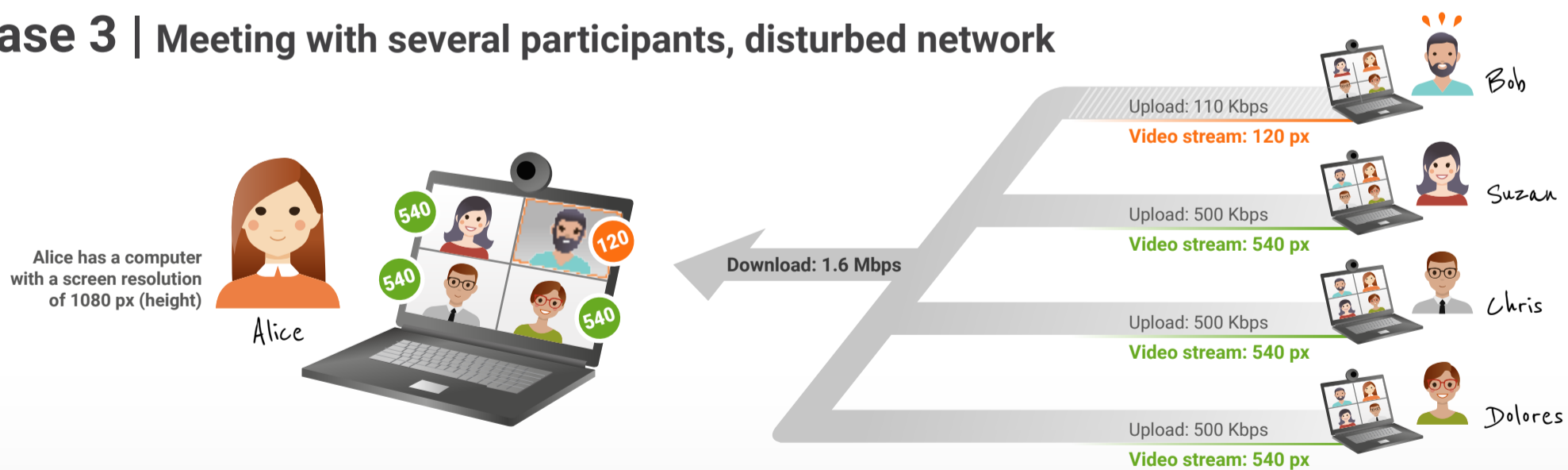Download: 2 Mbps   Upload: 2 Mbps
Video stream: 1080 px (HD)

Bob

The 2Mbps upload bandwidth used by Bob allows to transmit a video stream of 1080px.

The display on Alice's screen is therefore optimal: Bob's window is displayed in HD 1080 pixels (height).

Case 2 | Meeting with several participants, optimal conditions

Alice has a computer with a screen resolution of 1080 px (height)

Alice

540 540
540 540

Download: 2 Mbps

Upload: 500 Kbps
Video stream: 540 px
Bob

BUpload: 500 Kbps
Video stream: 540 px
Suzan

Upload: 500 Kbps
Video stream: 540 px
Chris

Upload: 500 Kbps
Video stream: 540 px
Dolores

The upload bandwidth used by Bob, Suzan, Chris and Dolores are 500 Kbps for each. It allows to transmit a video stream of 540px for each.

The display on Alice's screen is therefore optimal: the windows of Bob, Suzan, Chris and Dolores are displayed in 540 pixels (heights).

Case 3 | Meeting with several participants, disturbed network

Alice has a computer with a screen resolution of 1080 px (height)

Alice

540 120
540 540

Download: 1.6 Mbps

Upload: 110 Kbps
Video stream: 120 px
Bob

Upload: 500 Kbps
Video stream: 540 px
Suzan

Upload: 500 Kbps
Video stream: 540 px
Chris

Upload: 500 Kbps
Video stream: 540 px
Dolores

The upload bandwidth used by Suzan, Chris, et Dolores are 500 Kbps for each. It allows to transmit a video stream of 540px for each.

Therefore the display on Alice's screen is optimal for the windows of Suzan, Chris et Dolores which are displayed in 540 pixels (height).

Bob has a connection with a limited upload of 110 Kbps. This bandwidth allows to transmit a video stream of 120px.

Bob's window is displayed on Alice's Screen with an adjusted size but a lower video quality: the image received in 120 pixels is enlarged on 540 pixels. However, the video remains smooth and the audio stays crystal-clear.

To enjoy the best of the Tixeo videoconferencing solution, we recommend:

▸ **1.2 Mbps for HD 720p communication**   ▸ **2 Mbps for HD 1080p communication**

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