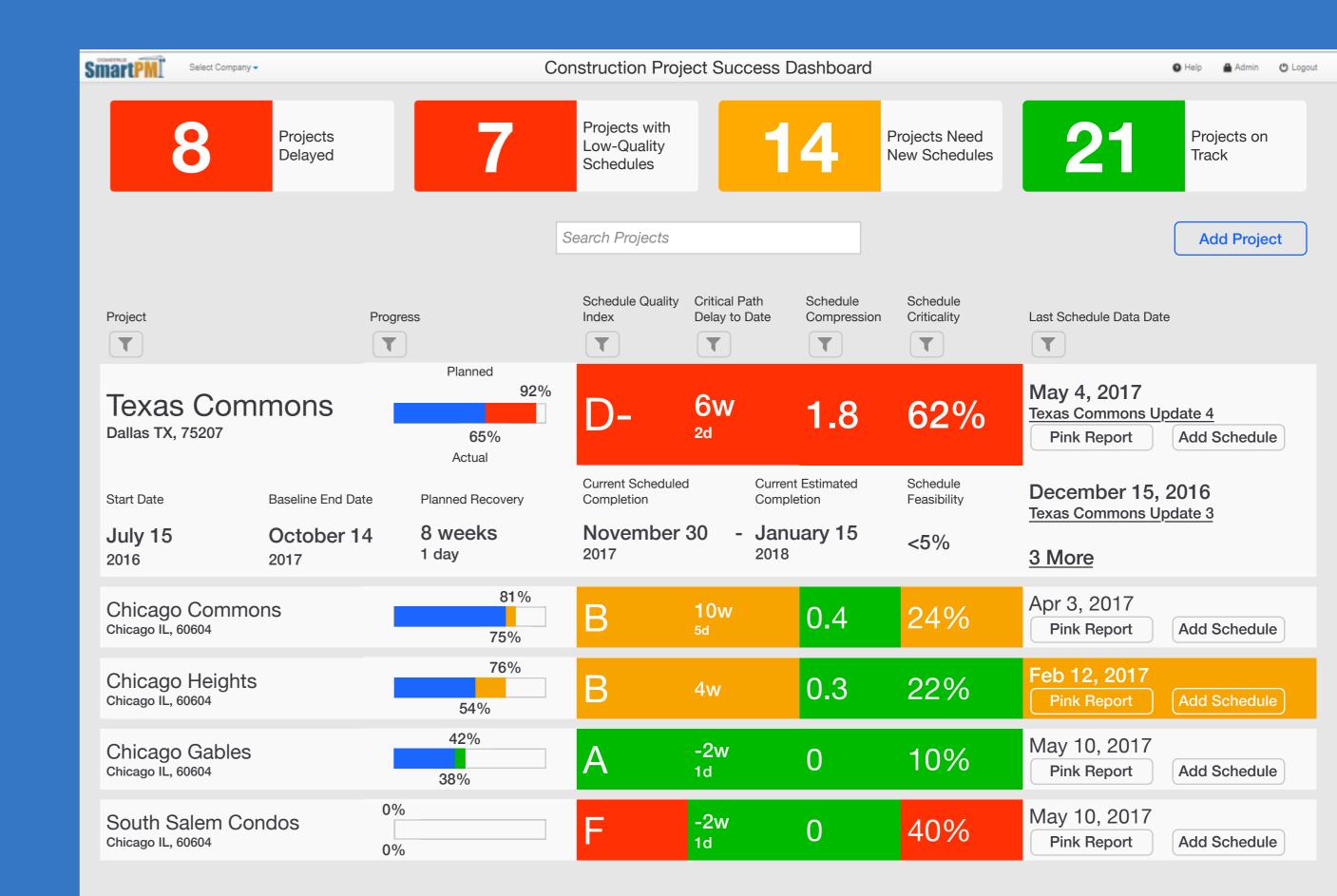
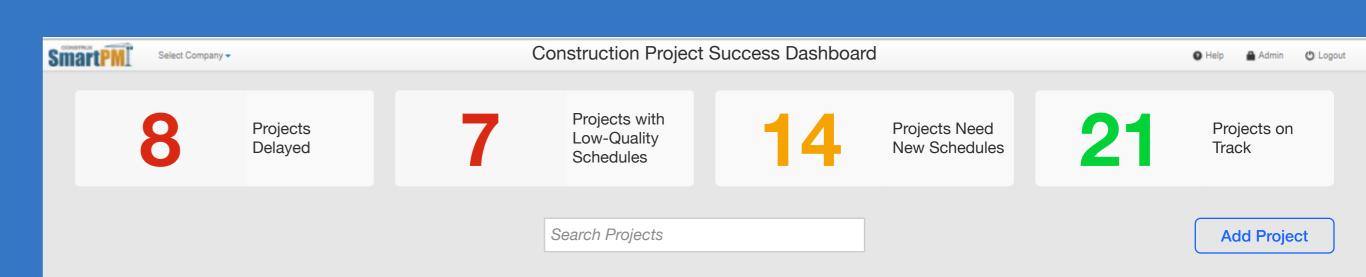


### **Highlight Problem Areas**

Fill cells that indicate projects with delays and/or low-quality schedules.

Select Company -	,	Co	onstruction Proj	ect Success I	Dashboard			🛛 Help 🛔 Admin 🕚 Logout
8	Projects Delayed	7	Projects with Low-Quality Schedules			Projects Need New Schedules	21	Projects on Track
			Search Projects					Add Project
Project	Proç	gress	Schedule Quality Index	Critical Path Delay to Date	Schedule Compression	Schedule Criticality	Last Schedule Data Dat	e
Texas Com Dallas TX, 75207	mons	Planned 92% 65% Actual	D-	<b>6w</b> <sup>2d</sup>	1.8	62%	May 4, 2017 Texas Commons U Pink Report	odate 4 Add Schedule
Start Date	Baseline End Date	Planned Recovery	Current Schedule Completion	d Curre Comp	nt Estimated Iletion	Schedule Feasibility	December 15, Texas Commons U	
<b>July 15</b> 2016	October 14 2017	8 weeks 1 day	November 2017	30 - Jan 2018	uary 15	<5%	<u>3 More</u>	
Chicago Commo Chicago IL, 60604	ons	81% 75%	В	10w <sup>5d</sup>	0.4	24%	Apr 3, 2017 Pink Report	Add Schedule
Chicago Heights Chicago IL, 60604		76% 54%	В	4w	0.3	22%	Feb 12, 2017 Pink Report	Add Schedule
Chicago Gables Chicago IL, 60604		42% 38%	Α	<b>-2w</b> 1d	0	10%	May 10, 2017 Pink Report	Add Schedule
South Salem Cor Chicago IL, 60604	ndos	%	F	-2w 1d	0	40%	May 10, 2017 Pink Report	Add Schedule





#### **Highlight Everything**

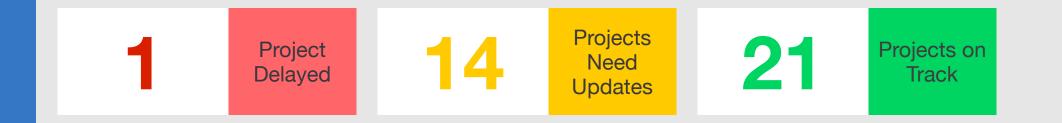
Fill any cells that indicate project health.

#### **Highlight Nothing**

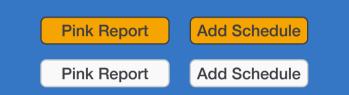
Tint letters that indicate project health with green, yellow, and red. Green indicates good health, yellow indicates poor health, and red indicates failing health.

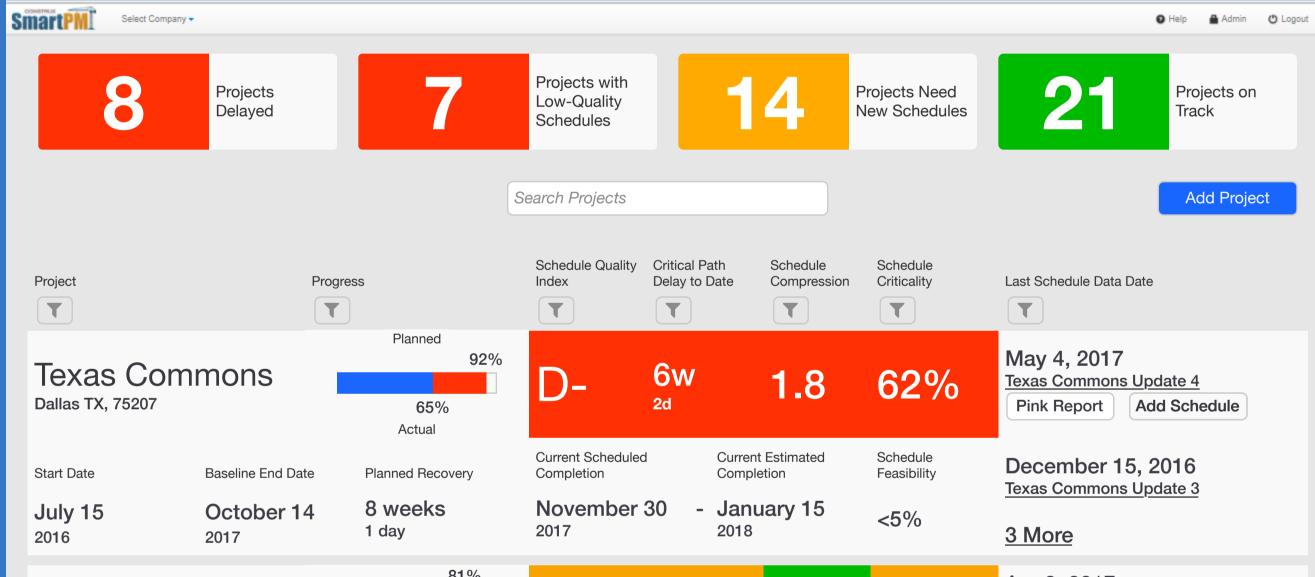
Project	Progress	Schedule Quality Index	Critical Path Delay to Da		Schedule Criticality	Last Schedule Data Date
Texas Commons Dallas TX, 75207	Planned 92% 65% Actual	D-	<b>6w</b> 2d	1.8	<b>62%</b>	May 4, 2017 <u>Texas Commons Update 4</u> Pink Report Add Schedule
Start Date Baseline End Date	e Planned Recovery	Current Schedule Completion		Current Estimated	Schedule Feasibility	December 15, 2016 Texas Commons Update 3
July 15         October 14           2016         2017	8 weeks 1 day	November 2017		January 15 2018	<5%	<u>3 More</u>
Chicago Commons Chicago IL, 60604	81% 75%	В	10w <sup>5d</sup>	0.4	24%	Apr 3, 2017 Pink Report Add Schedule
Chicago Heights Chicago IL, 60604	76% 54%	В	4w	0.3	22%	Feb 12, 2017         Pink Report         Add Schedule
Chicago Gables Chicago IL, 60604	42% 38%	Α	<b>-2w</b> 1d	0	10%	May 10, 2017 Pink Report Add Schedule
South Salem Condos Chicago IL, 60604	0%  0%	F	<b>-2w</b> 1d	0	40%	May 10, 2017 Pink Report Add Schedule











PI	anned	
	9	92%
	65%	
A	ctual	

<mark>81</mark> %	
75%	
76%	
54%	
42%	
38%	
0%	
0%	

Chicago Commons Chicago IL, 60604	81%  75%	В	10w <sup>5d</sup>	0.4	24%	Apr 3, 2017 Pink Report Add Schedule
Chicago Heights Chicago IL, 60604	76% 54%	В	4w	0.3	22%	Feb 12, 2017         Pink Report       Add Schedule
Chicago Gables Chicago IL, 60604	42% 38%	А	-2w 1d	0	10%	May 10, 2017 Pink Report Add Schedule
South Salem Condos Chicago IL, 60604	0% 0%	F	<mark>-2w</mark> 1d	0	40%	May 10, 2017 Pink Report Add Schedule





# Reference

a dashboard doesn't only decrease the learning curve of new users—it increases productivity for avid <mark>users.</mark>

6 steps to designing better dashboards invisionapp.com highlighted with Highly -----

WHAT DRAWS THE EYE? BIG NUMBERS-AND HUMANS GOne of the most striking patterns that the study showed was how effective large numbers were at drawing a viewer's attention.

What Designers Can Learn From The New Science Of Eye Tracking fastcodesign.com highlighted with Highly

some big datasets already revolve around a single story. An interesting way of dealing with <mark>issue is to simultar</mark> different aspects c Big Data Visualization with M

## Meet Twitter Ads

-

Set a budget

This layout is simple. I know what to do as soon as I see it.

Get started

Complete your Select a campaign objective

around a single story. An interesting													
way of dealing with this particular													
issue is to simultaneously display										C			
different aspects of such a dataset	Smart	PMľ	ADI	D A NEW PROJECT	UPDATE EXIS	TING PROJECT	RUN PI	ROJECT REPORT			ADMIN	SETTINGS	HELP
Big Data Visualization with Meaning alistapart.com highlighted with Highly	PROGRAM OVERSIGHT			Plan v Actual Progress	Schedule Quality Index	Critical Path Delay	Historical Delay Recovery	Total Delay To Date	End Date Variance	Planned Schedule Recovery	Schedule Compressior Index		Schedule Feasibility Index
	<u>TEXAS COMMONS</u> Dallas TX, 75207	START DATE: BASELINE END DATE: CURRENT END DATE: DATA DATE	7/15/2016 10/14/2017 11/30/2017 5/4/2017	92%	D-	134 days	27 days	107 days	46 days		1.8	62%	<5%
			7/45/2016			V							
If there is interaction, ensure that it	CHICAGO COMMONS Chicago, IL 60604	START DATE: BASELINE END DATE: CURRENT END DATE:	7/15/2016 7/1/2017 8/15//2017	81%	В	75 days	17 days	57 days	45 days	12 days	0.4	24%	65%
affects the entirety of your		DATA DATE	4/27/2017										
visualization approach so that the	CHICAGO GABLES	START DATE:	7/15/2016			¥							
relationships between data points are	Chicago, IL 60604	BASELINE END DATE: CURRENT END DATE: DATA DATE	1/13/2018 12/23/2017 5/1/2017	42%	<b>A</b> 8%	0 days	20 days	-20 days	-20 days	0 days	0.0	10%	95%
more apparent						V							
Big Data Visualization with Meaning alistapart.com highlighted with Highly													

			Plan v Actual Progress	Schedule Quality Index	Critical Path Delay	Historical Delay Recovery	Total Delay To Date	End Date Variance	Planned Schedule Recovery
TEXAS COMMONS Dallas TX, 75207	START DATE: BASELINE END DATE: CURRENT END DATE: DATA DATE	7/15/2016 10/14/2017 11/30/2017 5/4/2017	92%	D-	134 days	27 days	<b>107 day</b> s	46 days	61 days

stats seem to wer "Where are we ' but not "How ng (and how much pre money) until we

Maybe owners want to know:

When is it going to get done?

How much (more) is this going to cost me?

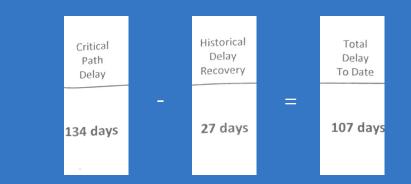
E.g. it will get done between November 2017 and January 2018

That means that there is a 0% chance it can get done before November and a 99% chance it can get done by January

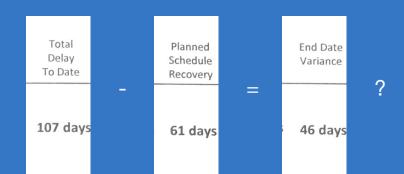


Do days refer to calendar days or business days?

I.e 46 week days is the same as nine business weeks and one business

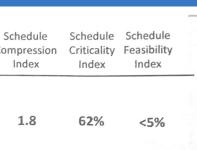


Is end date variance the absolute value of the difference between total delay to date and planned schedule recovery?



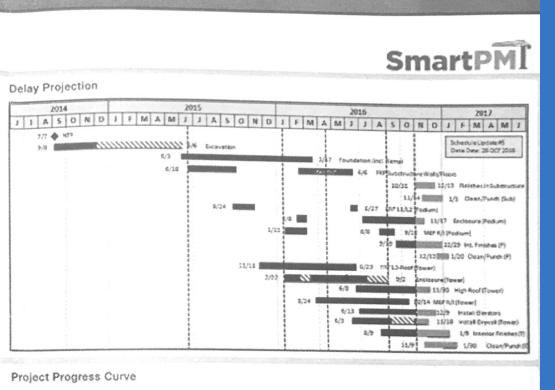
				Plan v Actual Progress	Schedule Quality Index	Critical Path Delay	Historical Delay Recovery	Total Delay To Date	End Date Variance	Planned Schedule Recovery	Schedule Compression Index	Schedule Criticality Index	Schedule Feasibility Index
	0 <u>MMONS</u> , 75207	SELECT DATA DATE START DATE: BASELINE END DATE: CURRENT END DATE:	5/4/2017 7/15/2016 10/14/2017 11/30/2017	92%	D-	134 days	27 days	107 days	46 days	61 days	1.8	62%	<5%
	TI	TLE	DATA DATE	# ACTIVITIES		IMATED IPLETION	SCHEDU QUALI		TAL CRITICA				
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1	Texas Com	imons Update 1	8/15/2016	974	10/	14/2017	B		23 days	OPEN	UPDAT		IK REPORT
2	Texas Com	nmons Update 2	10/15/2016	974	11,	/10/2017	B		43 days	OPEN	UPDAT	E PI	IK REPORT
3	Texas Com	nmons Update 3	12/15/2016	994	11,	/15/2017	<u>C</u>		65 days	OPE	N UPDA	TE PI	NK REPORT
4	<u>Texas Com</u>	nmons Update 4	5/4/2017	989	11	<b>/30/2</b> 017	<u>D-</u>		107 days	OPE	N UPDA	TE PI	NK REPORT

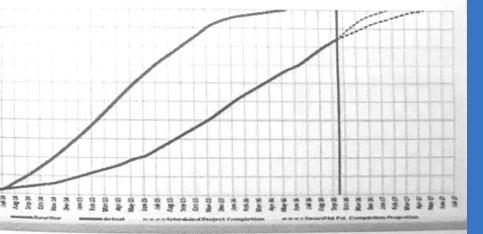
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Baseline 1	and the second second	5/5/2016 10/6/2016	153	207	207	Late Issuance of NTP (63)	54 5		7/7
2	1/11/2016	12/5/2016	213	0	207	Late Completion of Excavation (144) None	(60) (6	0.00	
3	4/15/2016	12/13/2016	221	17	224	Delayed Installation of Curtainwall (17) Delayed Completion of Curtainwall on L19 (35	9	0.35	
4	9/1/2016 10/28/2016	1/12/2017 1/30/2017	251 269	35 54	259 313	Delayed Completion of Curtainwall on CE9 22 Delayed Progress of Ceiling Drywall on Upper Floors (54)	the second se		
		Descrip	ntion of S	chedule I	Aodifica	tion	Critical Path Recovery	Near Critical Path Recovery	
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Re	cover	v Re	port		Θ		- Commination		,900e
		-				Current Plan	i Completit	on: 18 Dec 2016	\$0%



#### Maybe some way to chunk these numbers 1.8 62% <5% together?

This seems to answer the question "Can we fix it?"





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Digestible

Within ten seconds, an owner should know what they can ignore.

Discoverable

All visuals should link to details in the reports.

#### Actionable

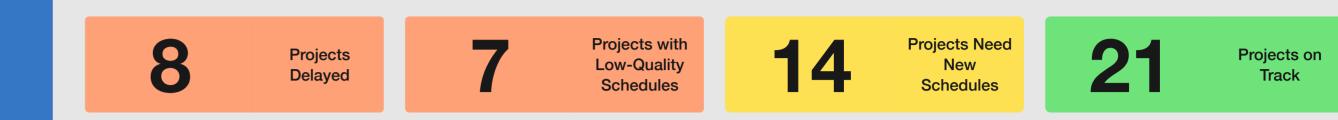
There should be ONE objective in each screen. All interactions should further that objective.

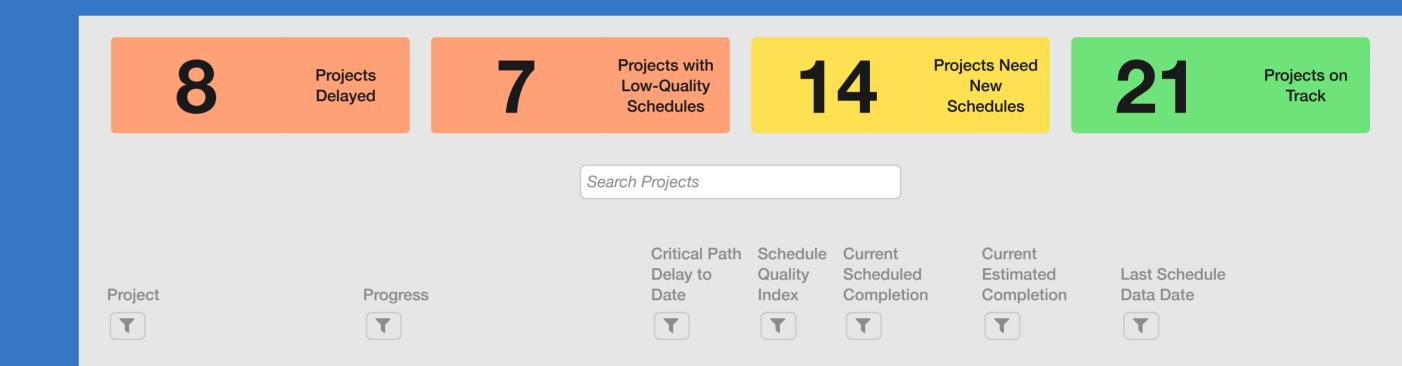
# Dashboard Features

#### Summary Cards

Find out what needs your attention fast. Click on a card to scroll to that part of the project table.

The project table is sorted from most delayed to most ahead projects.





#### Search Box and Filters

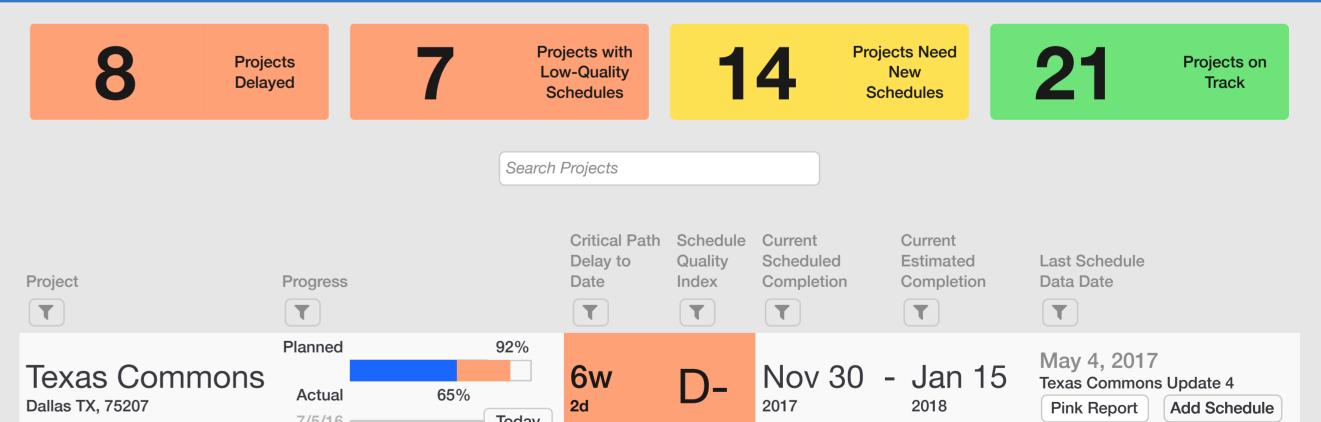
Type anything in the search box. Rows with matching fields will expand. Rows without matching fields will hide. Use filters to hone your search.

8	Projects Delayed	L	rojects with ow-Quality Schedules	1	4	Projects Need New Schedules	<b>21</b> Projects on Track
		Search	h Projects				Add Schedule
Project	Progress		Critical Path Delay to Date	Schedule Quality Index	Current Scheduled Completion	Current Estimated Completion	Last Schedule Data Date
Texas Commons Dallas TX, 75207	Planned Actual	92% 65%	<b>6w</b> 2d	D-	Nov 30 2017	- Jan 15 2018	May 4, 2017 Pink Report Add Schedule
Chicago Commons Chicago IL, 60604	Planned Actual	81 % 67%	<b>6w</b> 1d	В	Aug 15 2017	- Dec 29 2017	Apr 3, 2017 Pink Report Add Schedule
Chicago Heights Chicago IL, 60604	Planned Actual	81%  75%	4w	В	Jul 15 2017	- Sep 19 2017	Feb 12, 2017 Pink Report Add Schedule
Chicago Gables Chicago IL, 60604	Planned	38% 42%	Ahead of Schedule	А	Dec 23 2017	- Dec 29 2017	May 10, 2017 Pink Report Add Schedule

#### **Project Rows**

Project rows show you the bare minimum data you need to make planning decisions with your stakeholders. For example, If you want to pre-lease space in your property, the rows show you when it will be safe to do so. Rows also let you know when project data is too old to be useful.

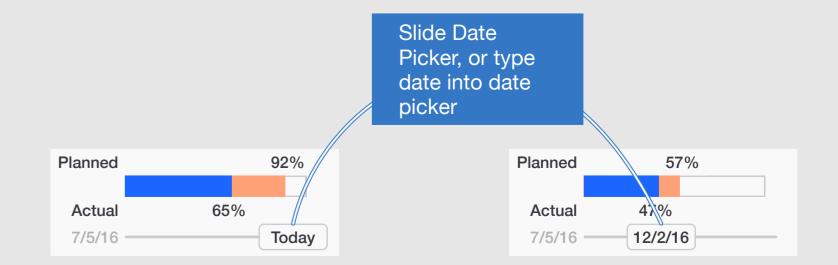
Click on "Add Schedule" to upload a new schedule. Click on "Pink Report" to run a report on the existing schedule.



#### **Expanded Project Rows**

Click on a project row to expand it. Click on any piece of data within it to deep link to the project oversight.

	7/5/1	6	Today				
Start Date Jul 15 2016	Baseline End Date Oct 14 2017	Planned Recovery 8w 1d	Schedule Compres	ssion Sch 62	hedule Criticality	Schedule Feasibility	Dec 15, 2016 Texas Commons Update 3 <u>3 More</u>
Chicago Comm Chicago IL, 60604	Planne IONS Actua		1% 6w 1d	В	Aug 15 2017	- Dec 29 2017	Apr 3, 2017 Pink Report Add Schedule
Chicago Height Chicago IL, 60604	Planne S Actua		4w	В	Jul 15 2017	- Sep 19 2017	Feb 12, 2017 Pink Report Add Schedule
Chicago Gables Chicago IL, 60604	Planne S Actua		Ahead of Schedule		Dec 23 2017	- Dec 29 2017	May 10, 2017 Pink Report Add Schedule



#### Sliders

See how delays accrue over time with the "Planned Progress v Actual Progress" Slider.



Digestible

Within ten seconds, an owner should know what they can ignore.

**Discoverable** All visuals should link to details in the reports.

Actionable

There should be ONE objective in each screen. All interactions should further that objective.

## Dashboard

Features

Summary Cards

Find out what needs your attention fast. Click on a card to scroll to that part of the project table.

The project table is sorted from most delayed to most ahead projects.





### Search Box and Filters

Type anything in the search box. Rows with matching fields will expand. Rows without matching fields will hide. Use filters to hone your search.

 8
 Projects Delayed
 7
 Projects with Low-Quality Schedules
 144
 Projects Need Updates
 211
 Projects on Track

 Search Projects

 Projects

 Projects

 Projects Need Updates
 211
 Projects on Track

 Search Projects

 Projects

 Projects

 Projects Need Updates
 211
 Projects on Track

 Search Projects

 Schedule Quality Index
 Image: Schedule Quality Index

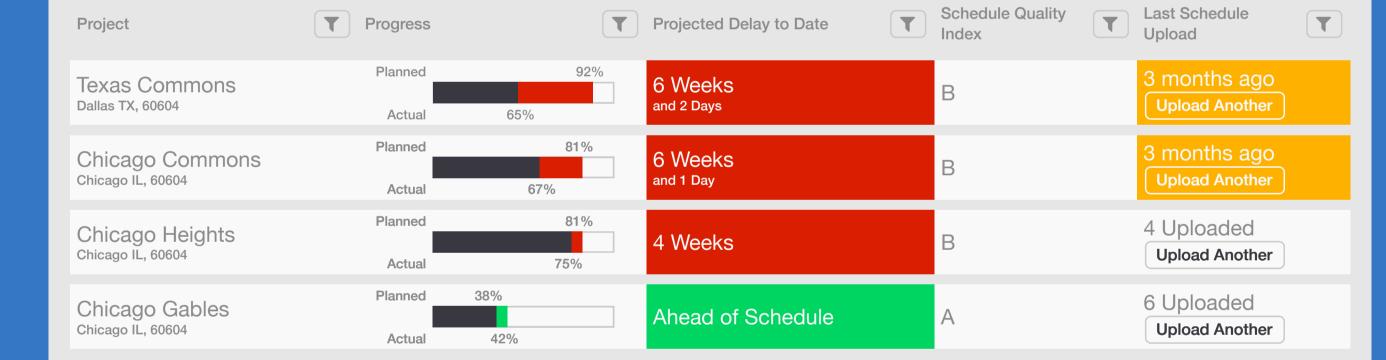


Search Projects

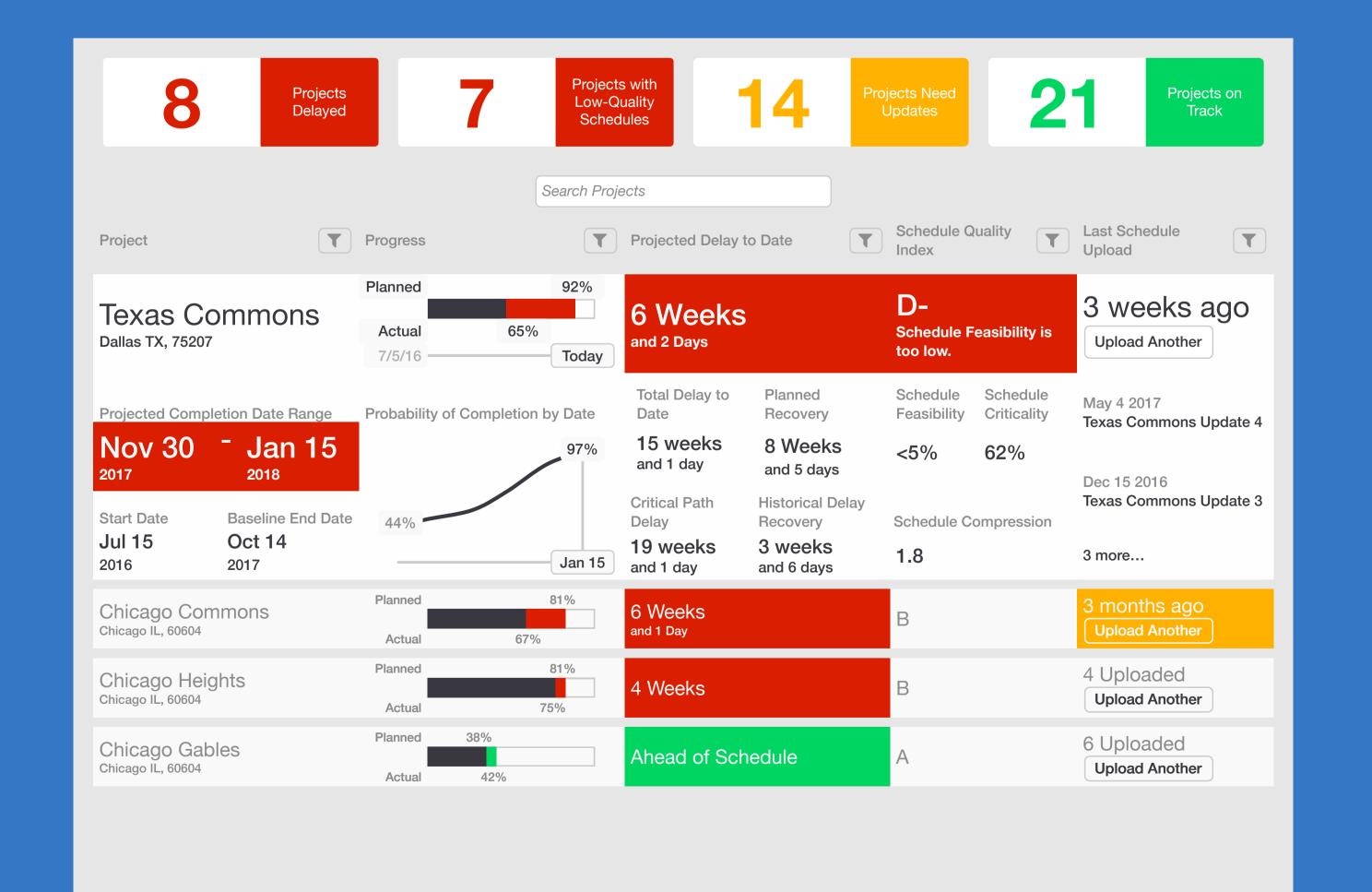
#### **Project Rows**

Project rows show you the bare minimum data you need to make planning decisions with your stakeholders. For example, If you want to pre-lease space in your property, the rows show you when it will be safe to do so. Rows also let you know when project data is too old to be useful.

NOTE: If SmartPM can forecast cost overruns, it would probably be useful to include them here.

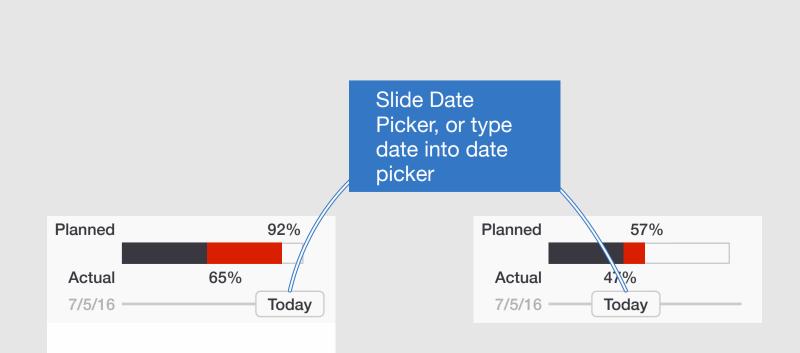




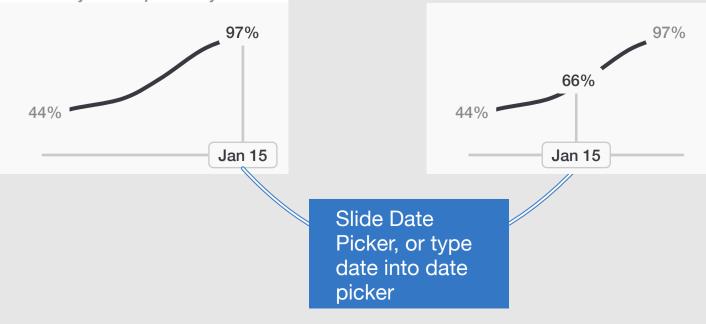


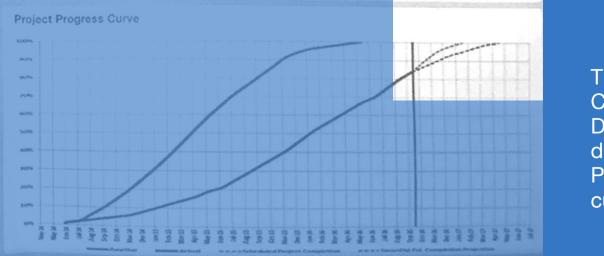
#### **Expanded Project Rows**

Click on a project row to expand it. Click on any piece of data within it to deep link to the project oversight.









The "Probability of Completion by Date" Slider is derived from the Progress forecast curve.

#### Sliders

See how delays accrue over time with the "Planned Progress v Actual Progress" Slider. See the likelihood of closing the gap with the "Probability of Completion by Date Slider.





Discoverable All visuals should link to details in the reports.

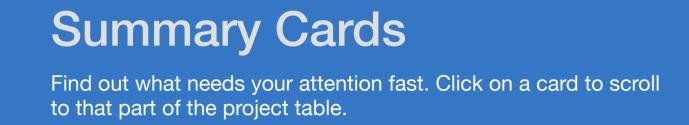
Actionable

There should be ONE objective in each screen. All interactions should further that objective.



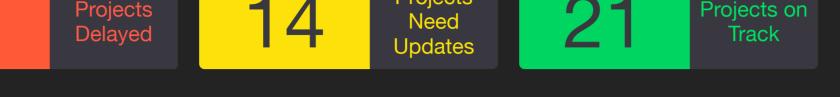


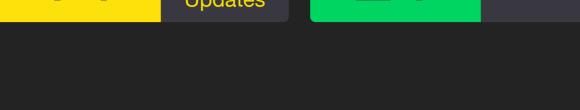


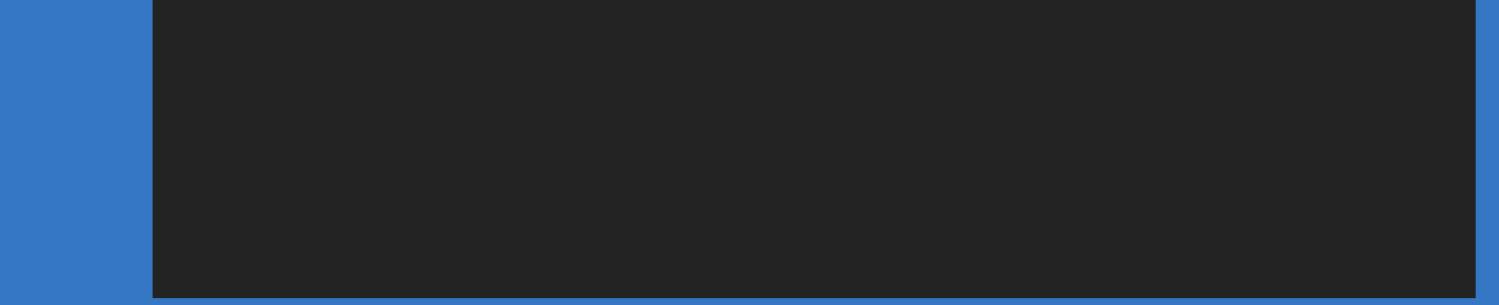


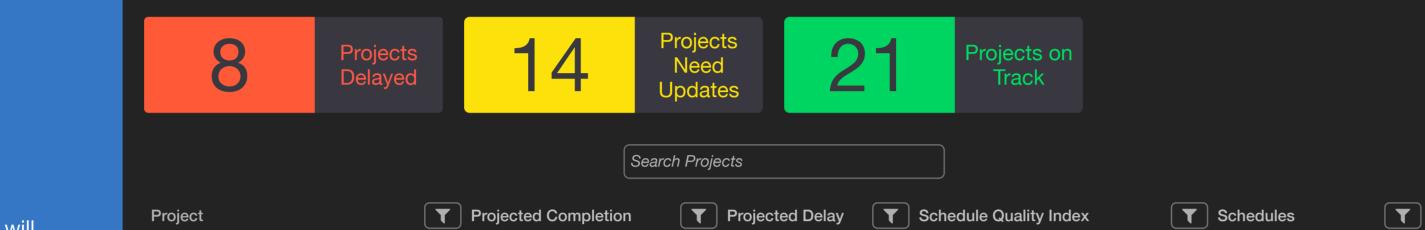
The project table is sorted from most delayed to most ahead projects.











Search Box and Filters

Type anything in the search box. Rows with matching fields will expand. Rows without matching fields will hide. Use filters to hone your search.



	8	Projects Delayed	14	Projec Need Updat	d 🖌	2 <b>1</b> P	rojects on Track		
	Project	T	Projected Comple	Chicago OR	Commons Projected Delay	Schedule	e Quality Index	T Sch	edules
	Texas Commons Dallas TX, 75297		Aug 15	Jan 15 2018	6 Weeks and 1 Day	В		4 L was	Jpload
nake pu	Chicago Commor Chicago IL, 60604	าร	Aug 15	Oct 2 2017	6 Weeks and 1 Day	В			Jpload So upload wa

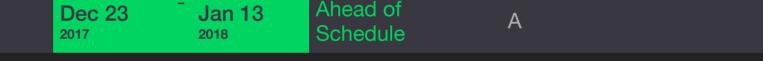
**Dec 15** 

Chicago Heights Chicago IL, 60604

#### Project Rows

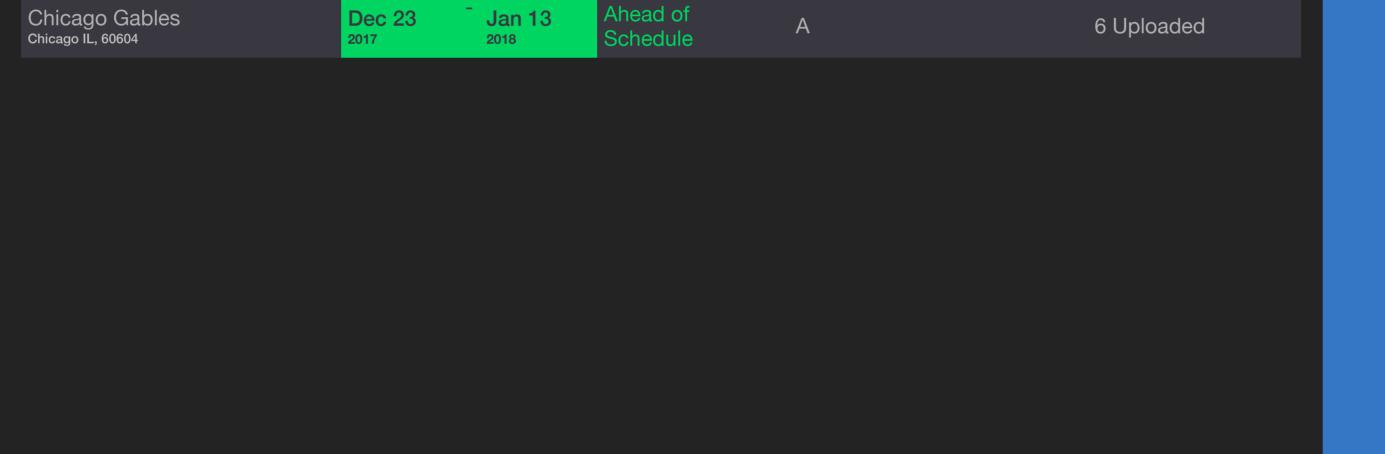
Project rows show you the bare minimum data you need to planning decisions with your stakeholders. For example, If you want to pre-lease space in your property, the rows show you when it will be safe to do so. Rows also let you know when project data is too old to be useful.

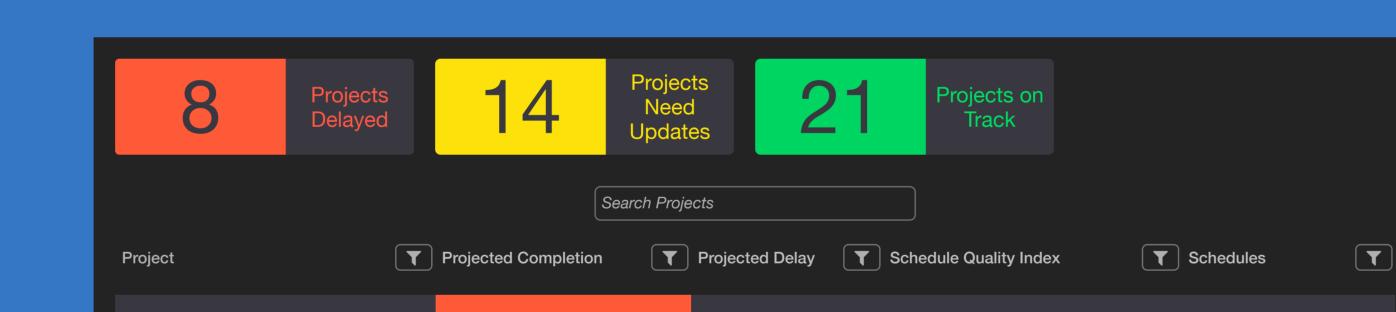
NOTE: If SmartPM can forecast cost overruns, it would probably be useful to include them here.



4 Uploaded

6 Uploaded

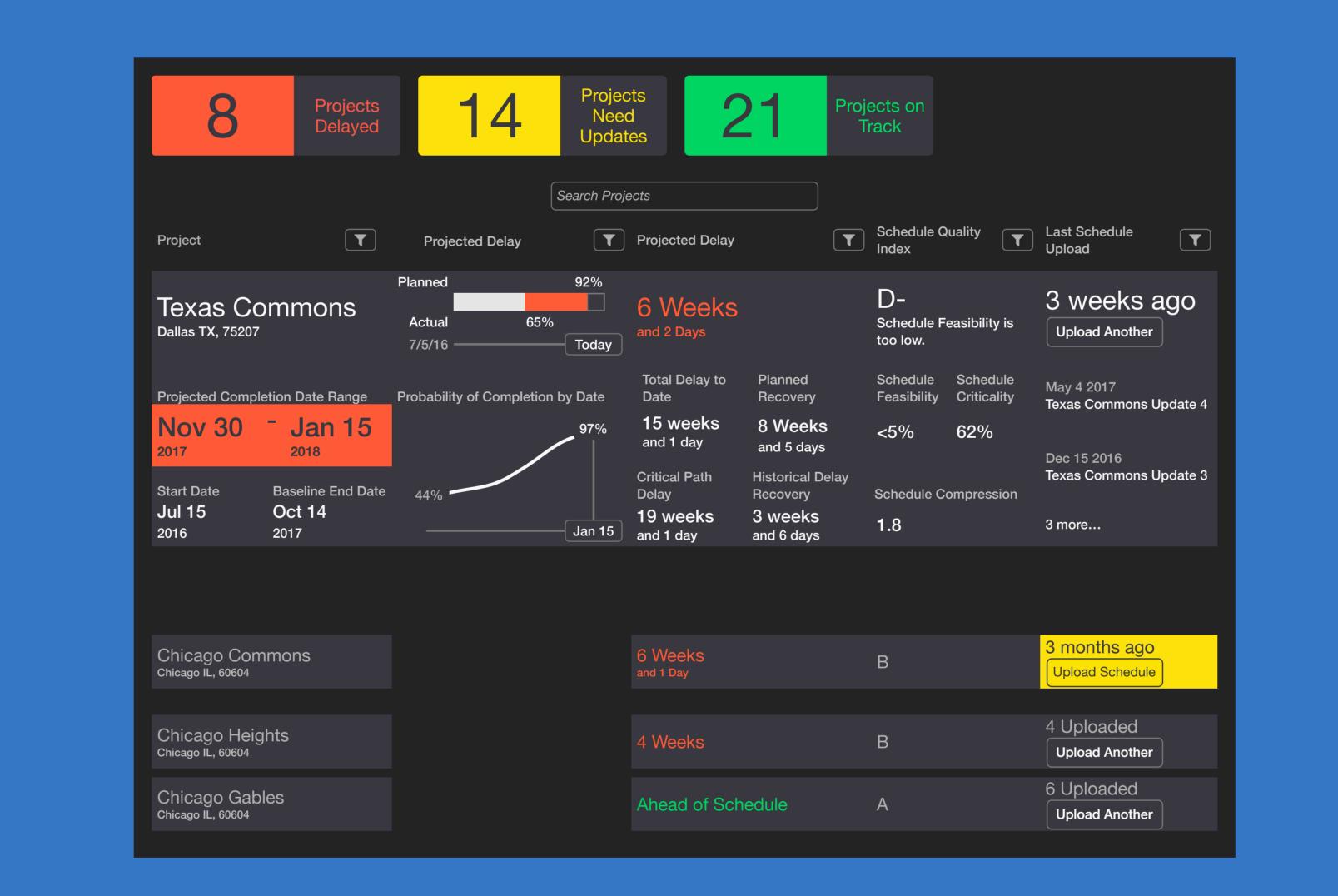


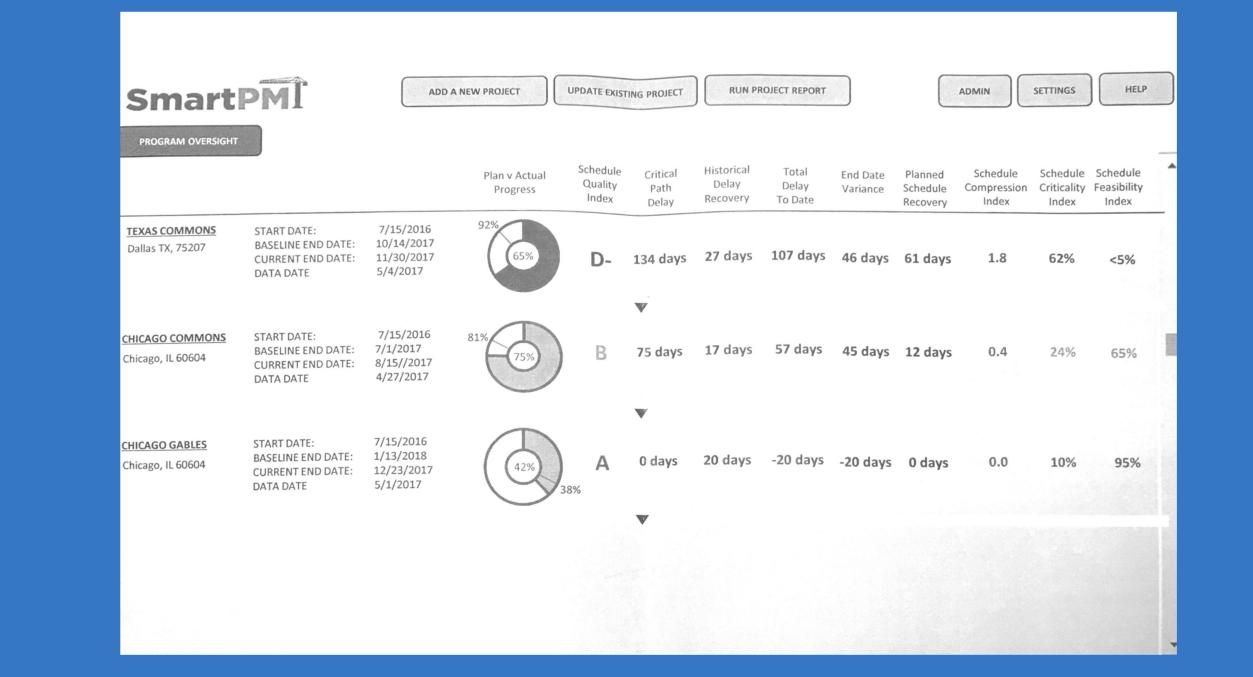


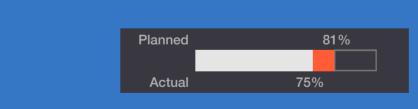
**Expanded Project Rows** 

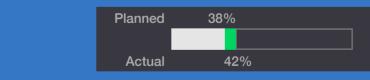
Click on a project row to expand it. Click on any piece of data within it to deep link to the project oversight.

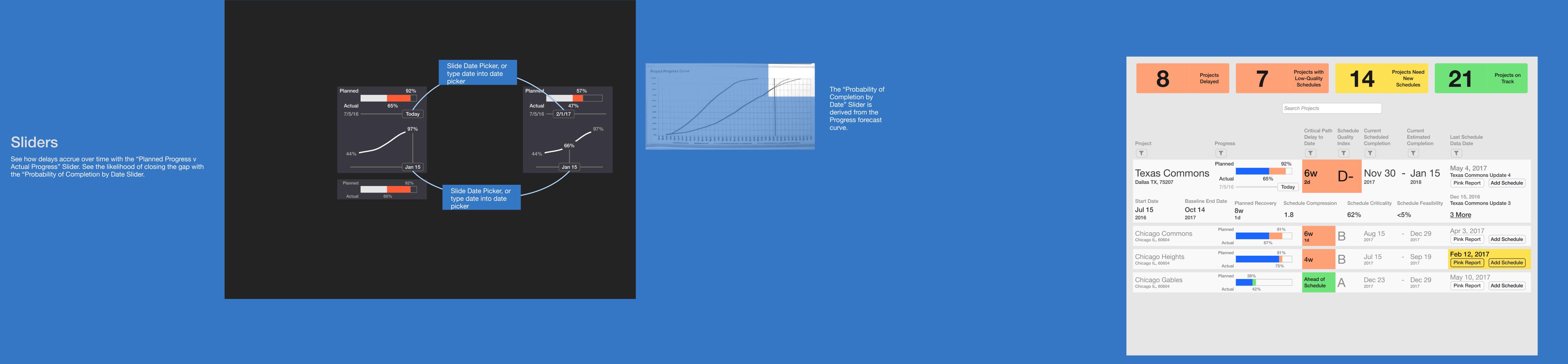












### Expanded Project Rows

Click on a project row to expand it. Click on any piece of data within it to deep link to the project oversight.

8	Projects Delayed	14	Projec Neec Update	21		ects on rack		
			Search Proje	cts				
Project	T	Projected Comple	tion <b>T</b>	Projected Delay	Schedule Q	uality Index	T	Schedules
Texas Col Dallas TX, 75207	mmons	Nov 30 <sup>-</sup> 2017	Jan 15 2018	6 Weeks and 2 Days	D– Schedule Fe	easibility is to	oo low.	5 Uploaded Upload Another
Start Date	Baseline End Date	Probability of Com Date	npletion by	Planned Recovery	Schedule Criticality	Schedule Feasibility	Schedule Compression	Texas Commons
Jul 15 <sup>2016</sup>	Oct 14 2017		97%	8 Weeks and 5 days	62%	<5%	1.8	Update 4 May 4 2017
Planned Progress Planned				,	Critical	Historical Delay		Texas Commons
	92%	44%		Total Delay to Date	Path Delay	Recovery		Update 3 Dec 15 2016
Actual 7/5/16	65% Today		Jan 15	15 Weeks and 2 days	19w <sup>1d</sup>	<b>3w</b> <sub>6d</sub>		3 more
Chicago Comr Chicago IL, 60604	mons	Aug 15	Oct 2 2017	6 Weeks and 1 Day	В			Upload Schedule Last upload was 8 months ago.
Chicago Heigh Chicago IL, 60604	nts	Nov 15	Dec 15 2017	4 Weeks	В			4 Uploaded
Chicago Gable Chicago IL, 60604	es	Dec 23	Jan 13 2018	Ahead of Schedule	А			6 Uploaded



